Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Certican 0.25mg Tablets

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains 0.25 mg everolimus.

Excipient(s) with known effect:

Each tablet contains 2 mg lactose monohydrate and 51 mg Anhydrous lactose.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Tablet

Tablets are white to yellowish, marbled, round, flat with a bevelled edge.

0.25 mg (diameter of 6 mm): engraved with "C" on one side and "NVR" on the other.

4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Kidney and heart transplantation

Certican is indicated for the prophylaxis of organ rejection in adult patients at low to moderate immunological riskreceiving an allogeneic renal or cardiac transplant. In kidney and heart transplantation, Certican should be used in combination with ciclosporin for microemulsion and corticosteroids.

Liver transplantation

Certican is indicated for the prophylaxis of organ rejection in adult patients receiving a hepatic transplant. In liver transplantation, Certican should be used in combination with tacrolimus and corticosteroids.

4.2 Posology and method of administration

Treatment with Certican should only be initiated and maintained by physicians who are experienced in immunosuppressive therapy following organ transplantation and who have access to everolimus whole blood concentration monitoring.

Posology

Adults

An initial dose regimen of 0.75 mg twice daily in co-administration with ciclosporin is recommended for the general kidney and heart transplant population, administered as soon as possible after transplantation.

The dose of 1.0 mg twice daily in co-administration with tacrolimus is recommended for the hepatic transplant population with the initial dose approximately 4 weeks after transplantation.

Patients receiving Certican may require dose adjustments based on blood concentrations achieved, tolerability, individual response, change in co-medications and the clinical situation. Dose adjustments can be made at 4-5 day intervals (see *Therapeutic drug monitoring*).

Special population

Black patients

The incidence of biopsy-proven acute rejection episodes was significantly higher in black renal transplant patients compared with non-black patients. There is limited information indicating that black patients may require a higher Certican dose to

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achieve similar efficacy to non-black patients (see section 5.2). Currently, the efficacy and safety data are too limited to allow specific recommendations for use of everolimus in black patients.

Paediatric population

In paediatric renal and hepatic transplant patients, Certican should not be used. The safety and efficacy of Certican in paediatric cardiac transplant patients has not been established (see section 5.1).

Elderly patients (≥65 years)

Clinical experience in patients >65 years of age is limited. Although data are limited, there are no apparent differences in the pharmacokinetics of everolimus in patients ≥65-70 years of age (see section 5.2).

Patients with renal impairment

No dosage adjustment is required (see section 5.2).

Patients with impaired hepatic function

Everolimus whole blood trough concentrations should be closely monitored in patients with impaired hepatic function. The dose should be reduced to approximately two thirds of the normal dose for patients with mild hepatic impairment (Child-Pugh Class A), to approximately one half of the normal dose for patients with moderate hepatic impairment (Child Pugh Class B), and to approximately one third of the normal dose for patients with severe hepatic impairment (Child Pugh Class C). Further dose titration should be based on therapeutic drug monitoring (see section 5.2). Reduced doses rounded to the nearest tablet strength are tabulated below:

Table 1 Certican dose reduction in patients with hepatic impairment

	Normal hepatic function	Mild hepatic impairment (Child-Pugh A)	Moderate hepatic impairment (Child-Pugh B)	Severe hepatic impairment (Child-Pugh C)
Renal and cardiac transplantation	0.75 mg <i>b.i.d</i> .	0.5 mg <i>b.i.d</i> .	0.5 mg <i>b.i.d</i> .	0.25 mg <i>b.i.d</i> .
Hepatic transplantation	1 mg <i>b.i.d</i> .	0.75 mg <i>b.i.d.</i>	0.5 mg <i>b.i.d</i> .	0.5 mg <i>b.i.d.</i>

Therapeutic drug monitoring

The use of drug assays with adequate performance characteristics when targeting low concentrations of ciclosporin or tacrolimus is recommended.

Certican has a narrow therapeutic index which may require adjustments in dosing to maintain therapeutic response. Routine everolimus whole blood therapeutic drug concentration monitoring is recommended. Based on exposure-efficacy and exposure-safety analysis, patients achieving everolimus whole blood trough concentrations ≥ 3.0 ng/ml have been found to have a lower incidence of biopsy-proven acute rejection in renal, cardiac and hepatic transplantation compared with patients whose trough concentrations are below 3.0 ng/ml. The recommended upper limit of the therapeutic range is 8 ng/ml. Exposure above 12 ng/ml has not been studied. These recommended ranges for everolimus are based on chromatographic methods.

It is especially important to monitor everolimus blood concentrations in patients with hepatic impairment during concomitant administration of strong CYP3A4 inducers and inhibitors, when switching formulation, and/or if ciclosporin dosing is markedly reduced (see section 4.5). Everolimus concentrations might be slightly lower following dispersible tablet administration.

Ideally, dose adjustments of Certican should be based on trough concentrations obtained >4-5 days after the previous dosing change. There is an interaction between ciclosporin and everolimus, and everolimus concentrations may therefore decrease if ciclosporin exposure is markedly reduced (i.e. trough concentration <50 ng/ml).

Patients with hepatic impairment should preferably have trough concentrations in the upper part of the 3-8 ng/ml exposure range.

After starting treatment or after a dose adjustment, monitoring should be performed every 4 to 5 days until 2 consecutive trough concentrations show stable everolimus concentrations, as the prolonged half-lives in hepatically impaired patients delay the time to reach steady state (see sections 4.4 and 5.2). Dose adjustments should be based on stable everolimus trough concentrations.

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Ciclosporin dose recommendation in renal transplantation

Certican should not be used long-term together with full doses of ciclosporin. Reduced exposure to ciclosporin in Certican-treated renal transplant patients improves renal function. Based on experience gained from study A2309, ciclosporin exposure reduction should be started immediately after transplantation with the following recommended whole blood trough concentration windows:

Table 2 Renal transplantation: recommended target ciclosporin blood trough concentration windows

Target ciclosporin C ₀ (ng/ml)	Month 1	Months 2-3	Months 4-5	Months 6-12
Certican groups	100-200	75-150	50-100	25-50

(Measured C_0 and C_2 concentrations are shown in section 5.1).

Prior to dose reduction of ciclosporin it should be ascertained that steady-state everolimus whole blood trough concentrations are equal to or above 3 ng/ml.

There are limited data regarding dosing Certican with ciclosporin trough concentrations below 50 ng/ml, or C2 concentrations below 350 ng/ml, in the maintenance phase. If the patient cannot tolerate reduction of ciclosporin exposure, the continued use of Certican should be reconsidered.

Ciclosporin dose recommendation in cardiac transplantation

Cardiac transplant patients in the maintenance phase should have their ciclosporin dose reduced as tolerated in order to improve kidney function. If impairment of renal function is progressive or if the calculated creatinine clearance is <60 ml/min, the treatment regimen should be adjusted. In cardiac transplant patients, the ciclosporin dose may be based on ciclosporin blood trough concentrations. See section 5.1 for experience with reduced ciclosporin blood concentrations.

In cardiac transplantation, there are limited data regarding dosing Certican with ciclosporin trough concentrations of 50-100 ng/ml after 12 months.

Prior to dose reduction of ciclosporin it should be ascertained that steady-state everolimus whole blood trough concentrations are equal to or above 3 ng/ml.

Tacrolimus dose recommendation in hepatic transplantation

Hepatic transplant patients should have their tacrolimus exposure reduced to minimise calcineurin-related renal toxicity. The tacrolimus dose should be reduced starting approximately 3 weeks after initiating co-administration with Certican, based on targeted tacrolimus blood trough concentrations (C₀) of 3-5 ng/ml. In a controlled clinical trial, complete withdrawal of tacrolimus has been associated with an increased risk of acute rejections.

Certican has not been evaluated with full-dose tacrolimus in controlled clinical trials.

Method of administration

Certican is for oral use only.

The daily dose of Certican should always be given orally in two divided doses consistently either with or without food (see section 5.2) and at the same time as ciclosporin for microemulsion or tacrolimus (see *Therapeutic drug monitoring*).

Certican tablets should be swallowed whole with a glass of water and not crushed before use. For patients unable to swallow whole tablets, Certican dispersible tablets are also available (see Certican dispersible tablets Summary of Product Characteristics).

4.3 Contraindications

Certican is contraindicated in patients with a known hypersensitivity to everolimus, sirolimus, or to any of the excipients listed in section 6.1.

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4.4 Special warnings and precautions for use

Management of immunosuppression

In clinical trials, Certican has been administered concurrently with ciclosporin for microemulsion, basiliximab, or with tacrolimus, and corticosteroids. Certican in combination with immunosuppressive agents other than these has not been adequately investigated.

Certican has not been adequately studied in patients at high immunological risk.

Combination with thymoglobulin induction

Strict caution is advised with the use of thymoglobulin (rabbit anti-thymocyte globulin) induction and the Certican/ciclosporin/steroid regimen. In a clinical study in heart transplant recipients (Study A2310, see section 5.1), an increased incidence of serious infections including fatal infections was observed within the first three months after transplantation in the subgroup of patients who had received induction with rabbit anti-thymocyte globulin.

Serious and opportunistic infections

Patients treated with immunosuppressants, including Certican, are at increased risk for opportunistic infections (bacterial, fungal, viral and protozoal). Among these conditions are BK virus-associated nephropathy and JC virus-associated progressive multiple leukoencephalopathy (PML). These infections are often related to a high total immunosuppressive burden and may lead to serious or fatal conditions that physicians should consider in the differential diagnosis in immunosuppressed patients with deteriorating renal function or neurological symptoms. Fatal infections and sepsis have been reported in patients treated with Certican (see section 4.8).

In clinical trials with Certican, antimicrobial prophylaxis for *Pneumocystis jiroveci (carinii)* pneumonia and Cytomegalovirus (CMV) was recommended following transplantation, particularly for patients at increased risk for opportunistic infections.

Liver function impairment

Close monitoring of everolimus whole blood trough concentrations (C_0) and everolimus dose adjustment is recommended in patients with impaired hepatic function (see section 4.2).

Because of longer everolimus half-lives in patients with hepatic impairment (see section 5.2), everolimus therapeutic monitoring after starting treatment or after a dose adjustment should be performed until stable concentrations are reached.

Interaction with oral CYP3A4 substrates

Caution should be exercised when Certican is taken in combination with orally administered CYP3A4 substrates with a narrow therapeutic index due to the potential for drug interactions. If Certican is taken with orally administered CYP3A4 substrates with a narrow therapeutic index (e.g. pimozide, terfenadine, astemizole, cisapride, quinidine or ergot alkaloid derivatives), the patient should be monitored for undesirable effects described in the product information of the orally administered CYP3A4 substrate (see section 4.5).

Interaction with strong inhibitors or inducers of CYP3A4 and/or P-glycoprotein (PgP)

Co-administration with strong inhibitors of CYP3A4 and/or the multidrug efflux pump Pglycoprotein (PgP) (e.g. ketoconazole, itraconazole, voriconazole, clarithromycin, telithromycin, ritonavir) may increase everolimus blood levels and is not recommended unless the benefit outweighs the risk.

Coadministration with strong inducers of CYP3A4 and/or PgP (e.g. rifampicin, rifabutin, carbamazepine, phenytoin) is not recommended unless the benefit outweighs the risk.

If coadministration of inducers or inhibitors of CYP3A4 and/or PgP cannot be avoided, it is recommended that everolimus whole blood trough concentrations and the clinical condition of the patient be monitored while they are concurrently administered with everolimus and after their discontinuation. Dose adjustments of everolimus may be required (see section 4.5).

Lymphomas and other malignancies

Patients receiving a regimen of immunosuppressive medicinal products, including Certican, are at increased risk of developing lymphomas or other malignancies, particularly of the skin (see section 4.8). The absolute risk seems related to the duration and intensity of immunosuppression rather than to the use of a specific medicinal product. Patients should be monitored regularly for skin neoplasms and advised to minimise exposure to UV light and sunlight, and to use appropriate sunscreen.

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Hyperlipidaemia

The use of Certican with ciclosporin for microemulsion or tacrolimus in transplant patients has been associated with increased serum cholesterol and triglycerides that may require treatment. Patients receiving Certican should be monitored for hyperlipidaemia and, if necessary, treated with lipid-lowering medicinal products and have appropriate dietary adjustments made (see section 4.5). The risk/benefit should be considered in patients with established hyperlipidaemia before initiating an immunosuppressive regimen including Certican. Similarly, the risk/benefit of continued Certican therapy should be re-evaluated in patients with severe refractory hyperlipidaemia. Patients administered a HMG-CoA reductase inhibitor and/or fibrate should be monitored for the possible development of rhabdomyolysis and other adverse effects as described in the Summary of Product Characteristics for the medicinal product(s) concerned (see section 4.5).

Angioedema

Certican has been associated with the development of angioedema. In the majority of cases reported, patients were receiving ACE inhibitors as co-medication.

Everolimus and calcineurin inhibitor-induced renal dysfunction

In renal and cardiac transplantation, Certican with full-dose ciclosporin increases the risk of renal dysfunction. Reduced doses of ciclosporin are required for use in combination with Certican in order to avoid renal dysfunction. Appropriate adjustment of the immunosuppressive regimen, in particular reduction of the ciclosporin dose, should be considered in patients with elevated serum creatinine levels.

In a liver transplant study, Certican with reduced tacrolimus exposure has not been found to worsen renal function in comparison to standard exposure tacrolimus without Certican. Regular monitoring of renal function is recommended in all patients. Caution should be exercised when co-administering other medicinal products that are known to have a negative effect on renal function.

Proteinuria

The use of Certican with calcineurin inhibitors in transplant recipients has been associated with increased proteinuria. The risk increases with higher everolimus blood concentrations. In renal transplant patients with mild proteinuria while on maintenance immunosuppressive therapy including a calcineurin inhibitor (CNI), there have been reports of worsening proteinuria when the CNI is replaced by Certican. Reversibility has been observed with interruption of Certican and reintroduction of the CNI. The safety and efficacy of switching from a CNI to Certican in such patients have not been established. Patients receiving Certican should be monitored for proteinuria.

Renal graft thrombosis

An increased risk of kidney arterial and venous thrombosis, resulting in graft loss, has been reported, mostly within the first 30 days post-transplantation.

Wound-healing complications

Certican, like other mTOR inhibitors, can impair healing, increasing the occurrence of post-transplant complications such as wound dehiscence, fluid accumulation and wound infection, which may require further surgical attention. Lymphocele is the most frequently reported such event in renal transplant recipients and tends to be more frequent in patients with a higher body mass index. The frequency of pericardial and pleural effusion is increased in cardiac transplant recipients and the frequency of incisional hernias is increased in liver transplant recipients.

Thrombotic microangiopathy/Thrombotic thrombocytopenic purpura/Haemolytic uraemic syndrome

The concomitant administration of Certican with a calcineurin inhibitor (CNI) may increase the risk of CNI-induced haemolytic uraemic syndrome/thrombotic thrombocytopenic purpura/thrombotic microangiopathy.

Vaccinations

Immunosuppressants may affect the response to vaccination. During treatment with immunosuppressants, including everolimus, vaccination may be less effective. The use of live vaccines should be avoided.

Interstitial lung disease/non-infectious pneumonitis

A diagnosis of interstitial lung disease (ILD) should be considered in patients presenting with symptoms consistent with infectious pneumonia but not responding to antibiotic therapy and in whom infectious, neoplastic and other non-drug causes have been ruled out through appropriate investigations. Cases of ILD have been reported with Certican, which generally resolve on drug interruption with or without glucocorticoid therapy. However, fatal cases have also occurred (see section 4.8).

New onset diabetes mellitus

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Certican has been shown to increase the risk of new onset diabetes mellitus after transplantation. Blood glucose concentrations should be monitored closely in patients treated with Certican.

Male infertility

There are literature reports of reversible azoospermia and oligospermia in patients treated with mTOR inhibitors. As preclinical toxicology studies have shown that everolimus can reduce spermatogenesis, male infertility must be considered a potential risk of prolonged Certican therapy.

Risk of intolerance of excipients

Certican tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction

Everolimus is mainly metabolised by CYP3A4 in the liver and to some extent in the intestinal wall and is a substrate for the multidrug efflux pump, P-glycoprotein (PgP). Therefore, absorption and subsequent elimination of systemically absorbed everolimus may be influenced by medicinal products that affect CYP3A4 and/or P-glycoprotein. Concurrent treatment with strong 3A4 inhibitors and inducers is not recommended. Inhibitors of P-glycoprotein may decrease the efflux of everolimus from intestinal cells and increase everolimus blood concentrations. *In vitro*, everolimus was a competitive inhibitor of CYP3A4 and a mixed inhibitor of CYP2D6. All *in vivo* interaction studies were conducted without concomitant ciclosporin.

Table 3 Effects of other active substances on everolimus

Active substance by interaction	Interaction – Change in Everolimus AUC/Cmax Geometric mean ratio (observed range)	Recommendations concerning co- administration
Strong CYP3A4/PgP inhibitors		
Itraconazole Itraconazole, posaconazole, voriconazole Telithromycin, clarithromycin Nefazodone Ritonavir, atazanavir,	AUC 115.3-fold (range 11.2-22.5) Cmax 14.1-fold (range 2.6-7.0) Not studied. Large increase in everolimus concentration is expected.	Co-administration with strong CYP3A4/PgP-inhibitors is not recommended unless the benefit outweighs the risk.
saquinavir, darunavir, indinavir, nelfinavir		
Moderate CYP3A4/PgP in	hibitors	
Erythromycin	AUC 14.4-fold (range 2.0-12.6) Cmax 12.0-fold (range 0.9-3.5)	Everolimus whole blood trough concentrations should be monitored whenever inhibitors of CYP3A4/PgP are concurrently administered and after their discontinuation. Use caution when co-administration of moderate CYP3A4 inhibitors or PgP inhibitors cannot be avoided. Closely monitor forside effects and adjust the everolimus dose as needed (see sections 4.2 and 4.4).

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		Health Products Regulatory Authority				
	AUC					
Imatinib	↑3.7-fold					
imatinib	Cmax					
	↑2.2-fold					
	AUC ↑3.5-fold					
	(range 2.2-6.3)					
Verapamil	Cmax					
-	↑2.3-fold					
	(range1.3-3.8)					
	AUC ↑2.7-fold					
	(range 1.5-4.7)					
Ciclosporin oral	Cmax					
	↑1.8-fold					
	(range 1.3-2.6)					
Commobidial (D	AUC ↑					
Cannabidiol (P-gp	2.5-fold Cmax					
inhibitor)	↑ 2.5-fold					
	Not studied.					
Fluconazole	Increased	Compliance in a second by a second of				
	exposure	Combination should be avoided.				
	expected.					
Diltiazem						
nicardipine						
	Not studied.					
Dronedarone	Increased					
Dronedarone	exposure					
	expected.					
	Not studied.					
Amprenavir, fosamprenavir	Increased					
	exposure					
	expected.					
	Not studied.					
Grapefruit juice orother	Increased					
food affecting	exposure					
CYP3A4/PgP	expected (the					
CIT 3A4/FGF	effect varies					
	widely).					
Strong and moderate CY						
	AUC ↓63%					
	(range 0-80%)					
Rifampicin	Cmax ↓58%					
	(range					
	10-70%)					
	Not studied.					
Rifabutin	Decreased	Co-administration with strong CYP3A4-inducers is not recommended unless the				
	exposure	benefit outweighs the risk.				
	expected.					
	Not studied.					
Carbamazepine	Decreased					
Phenytoin	exposure					
	expected.	Everolimus whole blood trough concentrations should be monitored whenever				
	Not studied.	inducers of CYP3A4 are concurrently administered and after their discontinuation.				
	Decreased					
	exposure					
	expected.					
	Not studied.					
Phenobarbital	Decreased					
	exposure					
	expected.					

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		Treatm Freducts Regulatory Nathonly
Efortiscus, noviscusino	Not studied. Decreased	
Efavirenz, nevirapine	exposure expected.	
St John's Wort (Hypericumperforatum)	Not studied. Large decrease in exposure expected.	Preparations containing St John's Wort should not be used during treatment with everolimus

Agents whose plasma concentrations may be altered by everolimus:

Octreotide

Co-administration of everolimus (10 mg daily) with depot octreotide increased octreotide C_{min} with a geometric mean ratio (everolimus/placebo) of 1.47-fold.

Ciclosporin

Certican had a minor clinical influence on ciclosporin pharmacokinetics in renal and heart transplant patients receiving ciclosporin for microemulsion.

Atorvastatin (CYP3A4 substrate) and pravastatin (PgP substrate)

Single-dose administration of Certican with either atorvastatin or pravastatin to healthy subjects did not influence the pharmacokinetics of atorvastatin, pravastatin and everolimus, as well as total HMG-CoA reductase bioreactivity in plasma to a clinically relevant extent. However, these results cannot be extrapolated to other HMG-CoA reductase inhibitors. Patients should be monitored for the development of rhabdomyolysis and other adverse events as described in the Summary of Product Characteristics of HMG-CoA reductase inhibitors.

Oral CYP3A4A substrates

Based on in vitro results, the systemic concentrations obtained after oral daily doses of 10 mg make inhibition of PgP, CYP3A4 and CYP2D6 unlikely. However, inhibition of CYP3A4 and PgP in the gut cannot be excluded. An interaction study in healthy subjects demonstrated that co-administration of an oral dose of midazolam, a sensitive CYP3A4 substrate probe, with everolimus resulted in a 25% increase in midazolam C_{max} and a 30% increase in midazolam AUC. The effect is likely to be due to inhibition of intestinal CYP3A4 by everolimus. Hence, everolimus may affect the bioavailability of orally co-administered CYP3A4 substrates. However, a clinically relevant effect on the exposure of systemically administered CYP3A4 substrates is not expected. If everolimus is taken with orally administered CYP3A4 substrates with a narrow therapeutic index (e.g. pimozide, terfenadine, astemizole, cisapride, quinidine or ergot alkaloid derivatives), the patient should be monitored for undesirable effects described in the product information of the orally administered CYP3A4 substrate.

Vaccinations

Immunosuppressants may affect the response to vaccination and vaccination during treatment with Certican may be less effective. The use of live vaccines should be avoided.

Paediatric population

Interaction studies have only been performed in adults.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no adequate data from the use of Certican in pregnant women. Studies in animals have shown reproductive toxicity effects including embryo/foetotoxicity (see section 5.3). The potential risk for humans is unknown. Certican should not be given to pregnant women unless the potential benefit outweighs the potential risk for the foetus. Women of childbearing potential should be advised to use effective contraception methods while they are receiving Certican and up to 8 weeks after treatment has been stopped.

Breast-feeding

It is not known whether everolimus is excreted in human milk. In animal studies, everolimus and/or its metabolites were readily transferred into the milk of lactating rats. Therefore, women who are taking Certican should not breast feed.

Fertility

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There are literature reports of reversible azoospermia and oligospermia in patients treated with mTOR inhibitors (see section 4.4, 4.8, and 5.3). The potential for everolimus to cause infertility in male and female patients is unknown, however, male infertility and secondary amenorrhoea have been observed.

4.7 Effects on ability to drive and use machines

Certican has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

a) Summary of the safety profile

The frequencies of adverse reactions listed below are derived from analysis of the 12-month incidences of events reported in multicentre, randomised, controlled trials investigating Certican in combination with calcineurin inhibitors (CNI) and corticosteroids in adult transplant recipients. All but two of the trials (in renal transplantation) included non-Certican, CNI-based standard-therapy arms. Certican combined with ciclosporin was studied in five trials in renal transplant recipients totalling 2,497 patients (including two studies without a non-Certican control group), and three trials in heart transplant recipients totalling 1,531 patients (ITT populations, see section 5.1).

Certican combined with tacrolimus was studied in one trial, which included 719 liver transplant recipients (ITT population, see section 5.1).

The most common events are: infections, anaemia, hyperlipidaemia, new onset of diabetes mellitus, insomnia, headache, hypertension, cough, constipation, nausea, peripheral oedema, impaired healing (including pleural and pericardial effusion).

The occurrence of the adverse events may depend on the immunosuppressive regimen (i.e. degree and duration). In the studies combining Certican with ciclosporin, elevated serum creatinine was observed more frequently in patients administered Certican in combination with full-dose ciclosporin for microemulsion than in control patients. The overall incidence of adverse events was lower with reduced-dose ciclosporin for microemulsion (see section 5.1).

The safety profile of Certican administered with reduced-dose ciclosporin was similar to that described in the 3 pivotal studies in which full-dose ciclosporin was administered, except that elevation of serum creatinine was less frequent, and mean and median serum creatinine values were lower, than in the Phase III studies.

b) Tabulated summary of adverse reactions

Table 4 contains adverse drug reactions possibly or probably related to Certican seen in Phase III clinical trials. Unless noted otherwise, these disorders have been identified by an increased incidence in the Phase III studies comparing Certican-treated patients with patients on a non-Certican, standard-therapy regimen, or the same incidence in case the event is a known ADR of the comparator MPA in renal and heart transplant studies (see section 5.1). Except where noted otherwise, the adverse reaction profile is relatively consistent across all transplant indications. It is compiled according to MedDRA standard organ classes.

Adverse reactions are listed according to their frequencies, which are defined as: very common ($\geq 1/10$); common ($\geq 1/100$); rare ($\geq 1/10,000$ to < 1/100); very rare (< 1/10,000).

Table 4 Adverse drug reactions possibly or probably related to Certican

Body system	Incidence	Adverse reaction
Infections and infestations	Very common	Infections (viral, bacterial, fungal), upper respiratory tract infection, lower respiratory tract and lung infections (including pneumonia) ¹ , urinary tract infections ²
	Common	Sepsis, wound infection
Neoplasms benign, malignant and unspecified	Common	Malignant or unspecified tumours, malignant and unspecified skin neoplasms
	Uncommon	Lymphomas/post-transplant lymphoproliferative disorders (PTLD)
Blood and lymphatic system disorders	Very common	Leukopaenia, anaemia/erythropenia, thrombocytopenia ¹
	Common	Pancytopenia, thrombotic microangiopathies (including thrombotic thrombocytopenic purpura/haemolytic

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Ticalari	Toducis Regulati	1
		uraemic syndrome)
Endocrine disorders	Uncommon	Hypogonadism male (testosterone decreased, FSH and LH increased)
Metabolism and nutrition disorders	Very common	Hyperlipidaemia (cholesterol and triglycerides), new onset diabetes mellitus, hypokalaemia
Psychiatric disorders	Very common	Insomnia, anxiety
Nervous system disorders	Very common	Headache
Cardiac disorders	Very common	Pericardial effusion ³
	Common	Tachycardia
Vascular disorders	Very common	Hypertension, venous thromboembolic events
	Common	Lymphocoele ⁴ , epistaxis, renal graft thrombosis
Respiratory, thoracic and mediastinal disorders	Very common	Pleural effusion ¹ , cough ¹ , dyspnoea ¹
	Uncommon	Interstitial lung disease ⁵
Gastrointestinal disorders	Very common	Abdominal pain, diarrhoea ,nausea, vomiting
	Common	Pancreatitis, stomatitis/mouth ulceration, oropharyngeal pain
Hepatobiliary disorders	Uncommon	Non infectious hepatitis, jaundice
Skin and subcutaneous tissue disorders	Common	Angiooedema ⁶ , acne, rash
Musculoskeletal and connective tissue disorders	Common	Myalgia, arthralgia
Renal and urinary disorders	Common	Proteinuria ² , renal tubular necrosis ⁷
Reproductive system and breast disorders	Common	Erectile dysfunction, menstrual disorder (including amenorrhoea and menorrhagia)
	Uncommon	Ovarian cyst
General disorders and administration site conditions	Very common	Peripheral oedema, pain, healing impaired, pyrexia
	Common	Incisional hernia
Investigations	Common	Hepatic enzyme abnormal ⁸

¹common in renal and liver transplantation

c) Description of selected adverse reactions

As preclinical toxicology studies have shown that everolimus can reduce spermatogenesis, male infertility must be considered a potential risk of prolonged Certican therapy. There are literature reports of reversible azoospermia and oligospermia in patients treated with mTOR inhibitors.

In controlled clinical trials in which a total of 3,256 patients receiving Certican in combination with other immunosuppressants were monitored for at least 1 year, a total of 3.1% developed malignancies, with 1.0% developing skin malignancies and 0.60% developing lymphomas or lymphoproliferative disorders.

Cases of interstitial lung disease, implying lung intraparenchymal inflammation (pneumonitis) and/or fibrosis of non-infectious aetiology, some fatal, have occurred in patients receiving rapamycin and derivatives, including Certican. Mostly, the condition resolves after discontinuation of Certican and/or addition of glucocorticoids. However, fatal cases have also occurred.

d) Adverse drug reactions from post-marketing spontaneous reports

The following adverse drug reactions have been derived from post-marketing experience with Certican via spontaneous case reports and literature cases. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency, which is therefore categorised as not known. Adverse drug reactions are listed according to system organ classes in MedDRA. Within each system organ class, ADRs are presented in order of decreasing seriousness.

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²common in cardiac and liver transplantation

³in cardiac transplantation

⁴in renal and cardiac transplantation ⁵the SMQ-based search for ILD showed the frequency of ILD in the clinical trials. This broad search also included cases caused by related events, e.g. by infections. The frequency category given here is derived from the medical review of the known cases.

⁶predominantly in patients receiving concomitant ACE inhibitors

⁷in renal transplantation

⁸γ-GT, AST, ALT elevated

Table 5 Adverse drug reactions from spontaneous reports and literature (frequency not known)

Body system		Incidence	Adverse reaction
Metabolism and nutrition disorders		Not known	Iron deficiency
Vascular disorders		Not known	Leukocytoclastic vasculitis, lymphoedema
Respiratory, thoracic and mediastinal disorders	Not known		Pulmonary alveolar proteinosis
Skin and subcutaneous tissue disorders	Not known		Erythroderma

Paediatric population

The safety information in children and adolescents is based on the data of 36 months in renal and 24-months in hepatic paediatric transplant patients (see section 5.1).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, Website: www.hpra.ie

4.9 Overdose

In animal studies, everolimus showed low acute toxic potential. No lethality or severe toxicity was observed after single oral doses of 2000 mg/kg (limit test) in either mice or rats.

Reported experience with overdose in humans is very limited; there is a single case of accidental ingestion of 1.5 mg everolimus in a 2-year-old child where no adverse events were observed. Single doses up to 25 mg have been administered to transplant patients with acceptable acute tolerability.

General supportive measures should be initiated in all cases of overdose.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Mammalian target of rapamycin (mTOR) kinase inhibitors . ATC code: L04AH02

Mechanism of action

Everolimus, a proliferation signal inhibitor, prevents allograft rejection in rodent and non-human primate models of allotransplantation. It exerts its immunosuppressive effect by inhibiting the proliferation, and thus clonal expansion, of antigen-activated T cells, which is driven by T cell-specific interleukins, e.g. interleukin-2 and interleukin-15. Everolimus inhibits an intracellular signalling pathway, which is triggered upon binding of these T cell growth factors to their respective receptors, and which normally leads to cell proliferation. The blockage of this signal by everolimus leads to an arrest of the cells at the G₁ stage of the cell cycle.

At the molecular level, everolimus forms a complex with the cytoplasmic protein FKBP-12. In the presence of everolimus, the growth factor-stimulated phosphorylation of the p70 S6 kinase is inhibited. Since p70 S6 kinase phosphorylation is under the control of FRAP (also called mTOR), this finding suggests that the everolimus-FKBP-12 complex binds to and thus interferes with the function of FRAP. FRAP is a key regulatory protein that governs cell metabolism, growth and proliferation; disabling FRAP function thus explains the cell cycle arrest caused by everolimus.

Everolimus thus has a different mode of action to ciclosporin. In preclinical models of allotransplantation, the combination of everolimus and ciclosporin was more effective than either compound alone.

The effect of everolimus is not restricted to T cells. It inhibits growth factor-stimulated proliferation of hematopoietic as well as non-hematopoietic cells in general, such as vascular smooth muscle cells. Growth factor-stimulated vascular smooth muscle cell proliferation, triggered by injury to endothelial cells and leading to neointima formation, plays a key role in the pathogenesis of chronic rejection. Preclinical studies with everolimus have shown inhibition of neointima formation in a rat aorta allotransplantation model.

Clinical efficacy and safety

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Renal transplantation

Certican in fixed doses of 1.5 mg/day and 3 mg/day, in combination with standard doses of ciclosporin for microemulsion and corticosteroids, was investigated in two Phase III *de novo* adult renal transplant trials (B201 and B251). Mycophenolate mofetil (MMF) 1 g *b.i.d* was used as comparator. The co-primary composite endpoints were efficacy failure (biopsy-proven acute rejection, graft loss, death or loss to follow-up) at 6 months, and graft loss, death or loss to follow-up at 12 months. Certican was, overall, non-inferior to MMF in these trials. The incidence of biopsy-proven acute rejection at 6 months in the B201 study was 21.6%, 18.2%, and 23.5% for the Certican 1.5 mg/day, Certican 3 mg/day and MMF groups, respectively. In study B251, the incidences were 17.1%, 20.1%, and 23.5% for the Certican 1.5 mg/day, Certican 3 mg/day and MMF groups, respectively.

Reduced allograft function with elevated serum creatinine was observed more frequently among subjects using Certican in combination with full-dose ciclosporin for microemulsion than in MMF patients. This effect suggests that Certican increases ciclosporin nephrotoxicity. Drug concentration-pharmacodynamic analysis showed that renal function was not impaired with reduced exposure to ciclosporin, while conserving efficacy for as long as the blood trough everolimus concentration was maintained above 3 ng/ml. This concept was subsequently confirmed in two further Phase III studies (A2306 and A2307, including 237 and 256 patients, respectively), which evaluated the efficacy and safety of Certican 1.5 mg and 3 mg per day (initial dosing; subsequent dosing based on target trough concentration ≥3 ng/ml) in combination with reduced exposure to ciclosporin. In both studies, renal function was preserved without compromising efficacy. In these studies, however, there was no non-Certican comparative arm. A Phase III, multicentre, randomised, open-label, controlled trial (A2309) has been completed in which 833 *denovo* renal transplant recipients were randomised to one of two Certican regimens, differing by dosage, and combined with reduced-dose ciclosporin or a standard regimen of sodium mycophenolate (MPA) + ciclosporin, and treated for 12 months. All patients received induction therapy with basiliximab pre-transplant, and on Day 4 post-transplant. Steroids were given as required post-transplant.

Starting dosages in the two Certican groups were 1.5 mg/day and 3 mg/day, given in two divided doses, subsequently modified from Day 5 onwards to maintain target blood trough everolimus concentrations of 3-8 ng/ml and 6-12 ng/ml, respectively. Sodium mycophenolate dosage was 1.44 g/day. Ciclosporin dosages were adapted to maintain target blood trough concentration windows as shown in Table6. The actual measured values for blood concentrations of everolimus and ciclosporin (C_0 and C_0) are shown in Table7.

Although the higher-dosage Certican regimen was as effective as the lower-dosage regimen, the overall safety was poorer, and so the higher-dosage regimen is not recommended.

The lower-dosage regimen for Certican is recommended (see section 4.2).

Table 6 Study A2309: Target ciclosporin blood trough concentration windows

Target ciclosporin C ₀ (ng/ml)	Mo 1	Mo 2-3	Mo 4-5	Mo 6-12
Certican groups	100-200	75-150	50-100	25-50
MPA group	200-300	100-250	100-250	100-250

Table 7 Study A2309: Measured trough blood concentrations of ciclosporin and everolimus

Trough concentrations (ng/ml)		Certicar (low-dose	MPA (standard ciclosporin)			
	Certican 1.	5 mg	Certican 3.	0 mg	Myfortic 1	.44 g
Ciclosporin	Co	C2	Co	C2	Co	C2
Day 7	195 ± 106	847 ± 412	192 ± 104	718 ± 319	239 ± 130	934 ± 438
Month 1	173 ± 84	770 ± 364	177 ± 99	762 ± 378	250 ± 119	992 ± 482
Month 3	122 ± 53	580 ± 322	123 ± 75	548 ± 272	182 ± 65	821 ± 273
Month 6	88 ± 55	408 ± 226	80 ± 40	426 ± 225	163 ± 103	751 ± 269
Month 9	55± 24	319 ± 172	51 ± 30	296 ± 183	149 ± 69	648 ± 265
Month 12	55 ± 38	291 ± 155	49 ± 27	281 ± 198	137 ± 55	587± 241
Everolimus	(Target C _o 3	3-8)	(Target C _o 6-12)		-	
Day 7	4.5 ± 2.3		8.3 ± 4.8		-	
Month 1	5.3 ± 2.2		8.6 ± 3.9		-	
Month 3	6.0 ± 2.7		8.8 ± 3.6		-	
Month 6	5.3 ± 1.9		8.0 ± 3.1		-	

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Month 9	5.3 ± 1.9	7.7 ± 2.6	-
Month 12	5.3 ± 2.3	7.9 ± 3.5	-

Numbers are mean \pm SD of measured values with C_0 = trough concentration, C_0 = value 2 hours post-dose. The primary efficacy endpoint was a composite failure variable (biopsy-proven acute rejection, graft loss, death or loss to follow-up). The outcome is shown in Table 8.

Table 8 Study A2309: Composite and individual efficacy endpoints at 6 and 12 months (incidence in ITT population)

	Certican 1.5 mg N=277 % (n)		Certican 3.0 mg N=279 % (n)		MPA 1.44 g N=277 % (n)	
	6 mo	12 mo	6 mo	12 mo	6 mo	12 mo
Composite endpoint (1 ⁰ criterion)	19.1 (53)	25.3 (70)	16.8 (47)	21.5 (60)	18.8 (52)	24.2 (67)
Difference % (Certican - MPA)	0.4%	1.1%	-1.9%	-2.7%	-	-
95% CI	(-6.2, 6.9)	(-6.1, 8.3)	(-8.3, 4.4)	(-9.7, 4.3)	-	-
Individual endpoints (2 ⁰ criteria)						
Treated BPAR	10.8 (30)	16.2 (45)	10.0 (28)	13.3 (37)	13.7 (38)	17.0 (47)
Graft loss	4.0 (11)	4.3 (12)	3.9 (11)	4.7 (13)	2.9 (8)	3.2 (9)
Death	2.2 (6)	2.5 (7)	1.8 (5)	3.2 (9)	1.1 (3)	2.2 (6)
Loss to follow-up	3.6 (10)	4.3 (12)	2.5 (7)	2.5 (7)	1.8 (5)	3.2 (9)
Combined endpoints (2 ⁰ criteria)						
Graft loss / Death	5.8 (16)	6.5 (18)	5.7 (16)	7.5 (21)	4.0 (11)	5.4 (15)
Graft loss / Death / Loss to FU	9.4 (26)	10.8 (30)	8.2 (23)	10.0 (28)	5.8 (16)	8.7 (24)

mo = months, 1^0 = primary, 2^0 = secondary, CI = confidence interval, non-inferiority margin was 10% Composite endpoint: treated biopsy-proven acute rejection (BPAR), graft loss, death, or loss to follow-up (FU)

Changes in renal function, as shown by calculated glomerular filtration rate (GFR) using the MDRD formula, are shown in Table9.

Proteinuria was assessed at scheduled visits by spot analysis of urinary protein/creatinine (see Table 10). A concentration effect was shown relating proteinuria levels to everolimus trough concentrations, particularly at C_{min} values above 8 ng/ml.

Adverse events reported more frequently in the recommended (lower-dosage) Certican regimen than in the MPA control group have been included in Table 4. A lower frequency of viral infections was reported for Certican-treated patients, resulting principally from lower reporting rates for CMV infection (0.7% vs. 5.95%) and BK virus infection (1.5% vs. 4.8%).

Table 9 Study A2309: Renal function (MDRD-calculated GFR) at 12 months (ITT population)

	Certican 1.5 mg N=277	Certican 3.0 mg N=279	MPA 1.44 g N=277
12-month mean GFR (ml/min/1.73 m ²)	54.6	51.3	52.2
Difference in mean (everolimus - MPA)	2.37	-0.89	-
95% CI	(-1.7, 6.4)	(-5.0, 3.2)	-

12-month GFR missing value imputation: graft loss = 0; death or loss to follow-up for renal function = LOCF1 (last-observation-carried-forward approach 1: End of Treatment (up to Month 12)).

MDRD: modification of diet in renal disease

Table 10 Study A2309: Urinary protein to creatinine ratio

		Category of proteinuria (mg/mmol)				
	Tuestuesut	normal%(n)	mild%(n)	sub-nephrotic%(n)	nephrotic%(n)	
	Treatment	(<3.39)	(3.39-<33.9)	(33.9-<339)	(>339)	
Month 12	Cantinan 1 F man	0.4 (1)	CA 2 (174)	33 F (00)	3.0 (0)	
(TED)	Certican 1.5 mg	0.4 (1)	64.2 (174)	32.5 (88)	3.0 (8)	

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Certican 3 mg	0.7 (2)	59.2 (164)	33.9 (94)	5.8 (16)	
MPA 1.44 g	1.8 (5)	73.1 (198)	20.7 (56)	4.1 (11)	

1 mg/mmol = 8.84 mg/g

TED: Treatment endpoint (Mo 12 value or last observation carried forward)

In a 24-month, randomised, multicenter, open-label, 2-arm study (A2433), 2,037 adult recipients with low immunological risk were randomised within 24 hours of renal transplantation to receive either everolimus and reduced CNI (EVR+rCNI) or MPA and standard CNI (MPA+sCNI). In the EVR+rCNI group, the starting dose of everolimus was 3 mg/day as 1.5 mg *b.i.d* (when given with tacrolimus) or 1.5 mg/day as 0.75 mg *b.i.d* (when given with ciclosporin). Incidence rates of all efficacy endpoints at month 12 and month 24 are summarized in Table 11. The safety findings are consistent with the known safety profiles of everolimus, MPA, ciclosporin and tacrolimus. The incidence of viral infections such as CMV and BKV infections was 28 (2.8%) and 59 (5.8%) respectively, in the EVR+rCNI group, and 137 (13.5%) and 104 (10.3%) respectively, in the MPA+sCNI group.

Table 11 Study A2433: Comparison between treatments for incidence rates of the composite endpoints (full analysis set)

Efficacy endpoints	EVR+ rCNI N = 1022	MPA+sCNI N = 1015	Difference (95% CI)	P value	EVR+ rCNI N = 1022	MPA+sCNI N = 1015	Difference (95% CI)	P value
	Month 12	Nonth 12			Month 24			
eGFR < 50mL/min/1.73m ² or tBPAR [#]	489 (47.9)	456 (44.9)	3.0 (-1.4, 7.3)	0.187	489 (47.9)	443 (43.7)	4.2 (-0.3, 8.7)	0.067
tBPAR, graft loss, or death	146 (14.4)	131 (13.0)	1.4 (-1.6, 4.4)	0.353	169 (18.0)	147 (17.3)	0.8 (-4.6, 6.1)	0.782
tBPAR	107 (10.8)	91 (9.2)	1.6 (-1.1, 4.2)	0.243	118 (12.8)	98 (12.1)	0.7 (-4.4, 5.8)	0.794
Graft loss	(3.3)	28 (2.8)	0.5 (-1.0, 2.0)	0.542	(3.7)	32 (3.2)	0.5 (-1.1, 2.1)	0.572
Death	20 (2.0)	28 (2.8)	-0.8 (-2.2, 0.5)	0.234	(3.7)	36 (4.2)	-0.5 (-2.7, 1.6)	0.634
Graft loss or death	51 (5)	54 (5.4)	-0.3 (-2.3,1.6)	0.732	67 (7.1)	65 (7.1)	0.0 (-2.5, 2.6)	0.970
eGFR < 50mL/min/1.73m ² #	456 (44.6)	424 (41.8)	2.9 (-1.5, 7.2)	0.201	474 (46.4)	423 (41.6)	4.7 (0.2, 9.2)	0.040

95% CI and p-value to test for no difference ([EVR+rCNI] – [MPA+sCNI] = 0); endpoint highlighted with # is compared using raw incidence rates, other endpoints are compared using Kaplan-Meier incidence rates;

tBPAR: treated biopsy-proven acute rejection; CI: confidence interval; eGFR: estimated glomerular filtration rate; EVR: everolimus; MPA: mycophenolic acid; rCNI: reduced-exposure calcineurin inhibitor; sCNI: standard-exposure calcineurin inhibitor

Cardiac transplantation

In the Phase III cardiac study (B253), both Certican 1.5 mg/day and 3 mg/day, in combination with standard doses of ciclosporin for microemulsion and corticosteroids, was investigated vs. azathioprine (AZA) 1-3 mg/kg/day. The primary endpoint was a composite of the incidence of acute rejection ≥ISHLT grade 3A, acute rejection associated with haemodynamic compromise, graft loss, patient death or loss to follow-up at 6, 12 and 24 months. Both doses of Certican were superior to AZA at 6, 12 and 24 months. The incidence of biopsy-proven acute rejection ≥ISHLT grade 3A at month 6 was 27.8% for the 1.5 mg/day group, 19% for the 3 mg/day group and 41.6% for the AZA group, respectively (p = 0.003 for 1.5 mg vs. control, <0.001 for 3 mg vs. control).

Based on coronary artery intravascular ultrasound data obtained from a subset of the study population, both Certican doses were statistically significantly more effective than AZA in preventing allograft vasculopathy (defined as an increase in maximum intimal thickness from baseline ≥0.5 mm in at least one matched slice of an automated pullback sequence), an important risk factor for long-term graft loss.

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Elevated serum creatinine was observed more frequently among subjects using Certican in combination with full-dose ciclosporin for microemulsion than in AZA patients. These results indicated that Certican increases ciclosporin-induced nephrotoxicity.

Study A2411 was a randomised, 12-month, open-label study comparing Certican in combination with reduced doses of ciclosporin microemulsion and corticosteroids to mycophenolic mofetil (MMF) and standard doses of ciclosporin microemulsion and corticosteroids in *de novo* cardiac transplant patients. Certican was initiated at 1.5 mg/day and the dose was adjusted to maintain target blood everolimus trough concentrations of 3-8 ng/ml. MMF dosage was initiated at 1500 mg *b.i.d.* Ciclosporin microemulsion doses were adjusted to the following target trough concentrations (ng/ml):

Table 12 Target ciclosporin trough concentrations by month

Target ciclosporin C ₀	Mo 1	Mo 2	Mo 3-4	Mo 5-6	Mo 7-12
Certican group	200-350	150-250	100-200	75-150	50-100
MMF group	200-350	200-350	200-300	150-250	100-250

Actual blood concentrations measured are shown in Table 13.

Table 13 Study A2411: Summary statistics for CsA blood concentrations* (mean ± SD)

	Certican group (N=91)	MMF group (N=83)
Visit	C ₀	C ₀
Day 4	154 ± 71	155 ± 96
Day 4	n=79	n=74
Mo 1	245 ± 99	308 ± 96
IVIO	n=76	n=71
Mo 3	199 ± 96	256 ± 73
IVIO 3	n=70	n=70
Mo 6	157 ± 61	219 ± 83
IVIO 6	n=73	n=67
Mo 9	133 ± 67	187 ± 58
IVIO 9	n=72	n=64
Ma 12	110 ± 50	180 ± 55
Mo 12	n=68	n=64

^{*:} whole blood trough concentrations (C₀)

Changes in renal function are shown in Table 14. Efficacy outcome is shown in Table 15.

Table 14 StudyA2411: Changes in creatinine clearance during study (patients with paired values)

		Estimated cre ml/mn	atinine clearance (Co	ckcroft-Gault)*
		Baseline	Value at timepoint	Difference between groups
		Mean (± SD)	Mean (± SD)	Mean (95% CI)
Month 1	Certican (n=87)	73.8 (± 27.8)	68.5 (± 31.5)	-7.3 (-18.1, 3.4)
	MMF (n=78)	77.4 (± 32.6)	79.4 (± 36.0)	
Month 6	Certican (n=83)	74.4 (± 28.2)	65.4 (± 24.7)	-5.0 (-13.6, 2.9)
	MMF (n=72)	76.0 (± 31.8)	72.4 (± 26.4)	
Month 12	Certican (n=71)	74.8 (± 28.3)	68.7 (± 27.7)	-1.8 (-11.2, 7.5)
	MMF (n=71)	76.2 (± 32.1)	71.9 (± 30.0)	
* includes	patients with value	at both baselin	e and visit	

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Table 15 Study A2411: Efficacy event rates (incidence in ITT population)

Efficacy endpoint	Certican n=92	MMF n=84	Difference in event rates Mean (95% CI)			
At 6 months						
Biopsy-proven acute rejection ≥ ISHLT grade 3A	18 (19.6%)	23 (27.4%)	-7.8 (-20.3, 4.7)			
Composite efficacy failure *	26 (28.3%)	31 (36.9%)	-8.6 (-22.5, 5.2)			
At 12 months						
Biopsy-proven acute rejection ≥ ISHLT grade 3A	21 (22.8%)	25 (29.8%)	-6.9 (-19.9, 6.1)			
Composite efficacy failure*	30 (32.6%)	35 (41.7%)	-9.1 (-23.3, 5.2)			
Death or graft loss/re-transplant	10 (10.9%)	10 (11.9%)	-			
* Composite efficacy failure: any of the following – acute rejection ≥ grade 3A, acute rejection with						
haemodynamic compromise, graft loss, death or	oss to follow	-up.				

Study A2310 is a Phase III, multicentre, randomised, open-label study comparing two Certican/reduced-dose ciclosporin regimens against a standard mycophenolate mofetil (MMF)/ciclosporin regimen over 24 months. The use of induction therapy was centre-specific (no-induction or basiliximab or thymoglobulin). All patients received corticosteroids.

Starting doses in the Certican groups were 1.5 mg/day and 3 mg/day, and were adjusted to target blood trough everolimus concentrations of 3-8 ng/ml and 6-12 ng/ml, respectively. The MMF dose was 3 g/day. Ciclosporin dosages targeted the same blood trough concentrations as in study A2411. Blood concentrations of everolimus and ciclosporin are shown in Table 16.

Recruitment to the experimental, higher-dosage Certican treatment arm was prematurely discontinued because of an increased rate of fatalities, due to infection and cardiovascular disorders, occurring within the first 90 days post-randomisation.

Table 16 Study A2310: Measured trough blood concentrations of ciclosporin (CsA) and everolimus

Visit window	Certican 1.5 mg/reduced-dose CsA N=279		MMF 3 g/std-dose CsA N=268		
	everolimus (C _{0 ng} /ml)	ciclosporin (C _{0 ng} /ml)	ciclosporin (C _{0 ng} /ml)		
Day 4	5.7 (4.6)	153 (103)	151 (101)		
Month 1	5.2 (2.4)	247 (91)	269 (99)		
Month 3	5.4 (2.6)	209 (86)	245 (90)		
Month 6	5.7 (2.3)	151 (76)	202 (72)		
Month 9	5.5 (2.2)	117 (77)	176 (64)		
Month 12	5.4 (2.0)	102 (48)	167 (66)		
Numbers are the mean (standard deviation) of measured values of C ₀ =trough concentration					

Efficacy outcome at 12 months is shown in Table 17.

Table 17 Study A2310: Incidence rates of efficacy endpoints by treatment group (ITT population – 12-month analysis)

	Certican 1.5 mg N=279	MMF N=271
Efficacy endpoints	n (%)	n (%)
Primary: Composite efficacy failure	99 (35.1)	91 (33.6)
- AR associated with HDC	11 (3.9)	7 (2.6)
- BPAR of ISHLT grade ≥ 3A	63 (22.3)	67 (24.7)
- Death	22 (7.8)	13 (4.8)
- Graft loss/re-transplant	4 (1.4)	5 (1.8)
- Loss to follow-up	9 (3.2)	10 (3.7)

Composite efficacy failure: biopsy-proven acute rejection (BPAR) episodes of ISHLT grade ≥ 3A, acute rejection (AR) associated with haemodynamic compromise (HDC), graft loss/re-transplant, death, or loss to follow-up.

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The higher fatality rate in the Certican arm relative to the MMF arm was mainly the result of an increased rate of fatalities from infection in the first three months among Certican patients receiving thymoglobulin induction therapy. The imbalance in fatalities within the thymoglobulin subgroup was particularly evident among patients hospitalised prior to transplantation and with L-ventricular assistance devices (see section 4.4).

Renal function over the course of study A2310, assessed by calculated glomerular filtration rate (GFR) using the MDRD formula, was $5.5 \text{ ml/min}/1.73 \text{ m}^2$ (97.5% Cl -10.9, -0.2) lower for the everolimus 1.5 mg group at Month 12.

This difference was mainly observed in centres where the mean ciclosporin concentrations were similar throughout the study period in patients receiving Certican and in patients randomised to the control arm. This finding underlines the importance of reducing the ciclosporin concentrations when combined with everolimus as indicated in Table 18 (see also section 4.2):

Table 18 Target ciclosporin trough concentrations per month

Target ciclosporin C ₀	Mo 1	Mo 2	Mo 3-4	Mo 5-6	Mo7-12
Certican group	200-350	150-250	100-200	75-150	50-100
MMF group	200-350	200-350	200-300	150-250	100-250

Additionally, the difference was mainly driven by a difference developed during the first month post-transplantation when patients are still in an unstable haemodynamic situation, possibly confounding the analysis of renal function. Thereafter, the decrease in mean GFR from Month 1 to Month 12 was significantly smaller in the everolimus group than in the control group (-6.4 vs. -13.7 ml/min, p=0.002).

Proteinuria, expressed as urinary protein: creatinine levels measured in spot urine samples, tended to be higher in the Certican-treated patients. Sub-nephrotic values were observed in 22% of the patients receiving Certican compared to MMF patients (8.6%). Nephrotic levels were also reported (0.8%), representing 2 patients in each treatment group (see section 4.4).

The adverse reactions for the everolimus 1.5 mg group in Study A2310 are consistent with the adverse drug reactions presented in Table 4. A lower rate of viral infections was reported for Certican-treated patients, resulting principally from a lower reporting rate for CMV infection compared to MMF (7.2% vs. 19.4%).

Hepatic transplantation

In the Phase III adult hepatic transplant study (H2304), reduced exposure tacrolimus and Certican 1.0 mg twice daily was administered to patients, with the initial Certican dose 4 weeks after transplantation, and was investigated versus standard exposure tacrolimus. Certican was dose adjusted to maintain target blood everolimus trough concentrations between 3-8 ng/ml for the Certican + reduced tacrolimus arm. Tacrolimus doses were subsequently adjusted to achieve target trough concentrations between 3-5 ng/ml during 12 months in the Certican + reduced tacrolimus arm.

Only 2.6% of study participants in H2304 were black so this study provides only limited efficacy and safety data on this population (see section 4.2)

Overall, in the 12-month analysis, the incidence of the composite endpoint (tBPAR, graft loss or death) was lower in the Certican + reduced tacrolimus arm (6.7%) compared to the tacrolimus control arm (9.7%) and consistent results were observed at 24 months (see Table 19).

The results of individual components of the composite endpoint are shown in Table 20.

Table 19 Study H2304: Comparison between treatment groups for Kaplan-Meier incidence rates of primary efficacy endpoints (ITT population – 12 and 24-month analysis)

Statistic	EVR+Reduced TAC N=245		TAC control N=243	
	12-month	24-month	12-month	24-month
Number of composite efficacy failures (tBPAR, graft loss or death) from randomisation till Month 24/12	16	24	23	29
KM estimate of incidence rate of composite efficacy failure (tBPAR*, graft loss or death) at Month 24/12	6.7%	10.3%	9.7%	12.5%

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Difference in KM estimates (vs. control)	-3.0%	2.2%	
97.5% CI for difference	(-8.7%, 2.6%)	(-8.8%, 4.4%)	
P-value Z-test (EVR+Reduced TAC - Control = 0) (No difference test)	0.230	0.452	
P-value* Z-test (EVR+Reduced TAC - Control ≥0.12) (Non-inferiority test)	<0.001	<0.001	

^{*}tBPAR = treated biopsy-proven acute rejection

Table 20 Study H2304: Comparison between treatment groups for incidence rates of secondary efficacy endpoints (ITT population – 12 and 24-month analysis)

Efficacy endpoints	EVR/Reduced TAC N=245 n (%)	TAC control N=243 n (%)	Risk diff. (95% CI)	P-value*
Graft loss				
12-month	6 (2.4)	3 (1.2)	1.2 (-7.8, 10.2)	0.5038
24-month	9 (3.9)	7 (3.2)	0.8% (-3.2, 4.7)	0.661
Death				
12-month	9 (3.7)	6 (2.5)	1.2 (-7.8, 10.1)	0.6015
24-month	12 (5.2)	10 (4.4)	0.8% (-3.7, 5.2)	0.701
BPAR ¹				
12-month	10 (4.1)	26 (10.7)	-6.6 (-11.2, -2.0)	0.0052
24-month	14 (6.1)	30 (13.3)	-7.2% (-13.5, -0.9)	0.010
tBPAR ²				
12-month	7 (2.9)	17 (7.0)	-4.1 (-8.0, -0.3)	0.0345
24-month	11 (4.8)	18 (7.7)	-2.9% (-7.9, 2.2)	0.203

^{1.} BPAR = biopsy-proven acute rejection; 2. tBPAR = treated biopsy-proven acute rejection

Comparison between treatment groups for change in eGFR (MDRD4) $[ml/min/1.73 \text{ m}^2]$ from time of randomisation (day 30) to Month 12 and 24 demonstrated superior renal function for the Certican + reduced tacrolimus arm (see Table 21).

Table 21 Study H2304: Comparison between treatment groups for eGFR (MDRD 4) at Month 12 (ITT population – 12 and 24-month analysis)

Difference vs. control						
Treatment	N	LS mean (SE)	LSM mean (SE)	97.5% CI	P-value (1)	P-value (2)
EVR+Reduced TAC						
12-month	244	-2.23 (1.54)	8.50 (2.12)	(3.74, 13.27)	< 0.001	<0.001
24-month	245	-7.94 (1.53)	6.66 (2.12)	(1.9, 11.42)	< 0.0001	0.0018
TAC control				-		_
12-month	243	-10.73 (1.54)				
24-month	243	-14.60 (1.54)				

Least squares means, 97.5% confidence intervals and p-values are from an ANCOVA model containing treatment and HCV status as factors, and baseline eGFR as a covariate.

P-value (1): Non-inferiority test with NI margin = -6 ml/min/1.73m², at one-sided 0.0125 level.

P-value (2): Superiority test at two-sided 0.025 levels.

A 24-month, multicenter, open-label, randomised, controlled study (H2307), was conducted in adult living donor liver transplant (LDLT) recipients with everolimus in combination with reduced tacrolimus (EVR+rTAC) compared to standard exposure tacrolimus (sTAC) to demonstrate comparable efficacy as measured by the composite efficacy failure (tBPAR, graft loss or death) and at least comparable eGFR. The recommended whole blood concentration before morning dose (C-0h) trough exposure (3 to 8 ng/mL) for the EVR+rTAC arm was maintained during the study. The target tacrolimus range of 3 to 5 ng/mL in combination with everolimus was chosen for the sTAC arm. This approach was supported by the 12 month data from Study H2304. In this study, the majority (N=223, 78.5%) of patients were of Asian origin. 284 patients were randomised to the EVR+rTAC group (N = 142) or sTAC group (N = 142). KM estimates for incidence of the primary composite efficacy failure

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^{*}All p-values are for two-sided test and were compared to 0.05 significance level.

events (tBPAR, graft loss or death) at month 12 and month 24 were comparable for EVR+rTAC and sTAC control arms. The eGFR was improved at month 12 and consistently maintained up to month 24. The adverse effects in the EVR+rTAC group in Study H2307 are consistent with the safety results from the pivotal studies presented in the "Undesirable effects" section.

Paediatric population

In paediatric renal and hepatic transplant patients, Certican should not be used. The European Medicines Agency has waived the obligation to submit the results of studies with paediatric cardiac transplant patients (see section 4.2).

In paediatric renal allograft recipients (1-18 years of age; n=106), Certican was assessed in a 12-month trial with 24 months additional follow-up. This multi-center, randomized, open-label trial with two parallel groups (1:1) evaluated the use of Certican in combination with reduced tacrolimus and corticosteroid withdrawal at 6 months post transplantation in comparison to mycophenolate mofetil with standard tacrolimus. At 12 months, the efficacy for Certican with reduced tacrolimus and steroid withdrawal was comparable to mycophenolate mofetil with standard tacrolimus [9.6% (5/52) vs 5.6% (3/54)] for the primary composite efficacy failure (CEF) endpoint of BPAR, graft loss and death. All of the events were BPAR; graft loss and death did not occur. At 36 months follow-up, the CEF endpoint was similar in both treatment groups, while treated BPAR occurred in five patients in each group. Graft loss was reported in one patient (2.1%) in the group receiving Certican with reduced tacrolimus versus two patients (3.8%) in the group receiving mycophenolate mofetil with standard tacrolimus. No deaths were reported during the study. Extrapolation from Certican adult kidney transplant data to Certican paediatric study data and literature showed that the efficacy composite endpoint was lower than that observed in adults. Renal function calculated by estimated glomerular filtration rate (eGFR) was comparable between both study groups.

Altogether 35% (18/52) patients in the Certican group vs. 17% (9/54) in the control group were withdrawn from study therapy due to AEs/Infections. Most of the AEs/infections leading to premature discontinuation of study medication were singular events and were not reported in more than one patient. In the Certican with reduced tacrolimus group two patients were reported with post-transplant lymphoproliferative disease and one patient with hepatocellular carcinoma.

In paediatric hepatic transplant recipients (month 1-18 years of age; n=56) receiving either a full-size liver allograft or a technically modified liver allograft from a deceased or living donor, Certican with reduced tacrolimus or ciclosporin was evaluated in a 24-month, multi-center, single arm study. Efficacy failure was defined as a composite endpoint (tBPAR, graft loss or death at 12 months). Out of 56 patients, two patients met the primary composite efficacy failure endpoint or any of its components. There were no deaths or graft losses over 24 months of treatment. An improvement in renal function, as measured by the gain in mean estimated glomerular filtration rate (eGFR) from randomisation to 12-months was 6.3 mL/min/1.73m². An improvement in renal function was also observed at 24-months, with an increase in mean eGFR from baseline of 4.5 mL/min/1.73m².

In paediatric hepatic transplant recipients, there was no negative impact in growth or sexual maturation observed. However, three main safety concerns were identified from the analysis of the safety in paediatric hepatic transplant recipients compared to adults and published literature: high rates of premature discontinuation of study medication, serious infections leading to hospitalization and PTLD. Incidence rates for PTLD in the 2 - <18 years age group, and notably in EBV negative children under 2 years of age, were higher compared to adults and published literature. Based on the safety data the benefit/risk profile does not support recommendations for use.

5.2 Pharmacokinetic properties

Absorption

After oral administration, peak everolimus concentrations occur 1 to 2 hours post-dose. Everolimus blood concentrations are dose proportional over the dose range of 0.25 to 15 mg in transplant patients. The relative bioavailability of the dispersible tablet compared with the tablet is 0.90 (90% CI 0.76-1.07) based on the AUC ratio.

Food effect

Everolimus C_{max} and AUC are reduced by 60% and 16% when the tablet formulation is given with a high-fat meal. To minimise variability, Certican should be taken consistently with or without food.

Distribution

The blood-to-plasma ratio of everolimus is concentration-dependent, ranging from 17% to 73% over the range of 5 to 5,000 ng/ml. Plasma protein binding is approximately 74% in healthy subjects and patients with moderate hepatic impairment. The distribution volume associated with the terminal phase (Vz/F) in maintenance renal transplant patients is 342 \pm 107 litres.

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Biotransformation

Everolimus is a substrate of CYP3A4 and P-glycoprotein. Following oral administration, it is the main circulating component in human blood. Six main metabolites of everolimus have been detected in human blood, including three monohydroxylated metabolites, two hydrolytic ring-opened products, and a phosphatidylcholine conjugate of everolimus. These metabolites were also identified in animal species used in toxicity studies, and showed approximately 100 times less activity than everolimus itself. Hence, the parent substance is considered to contribute the majority of the overall pharmacological activity of everolimus.

Elimination

After a single dose of radiolabelled everolimus to transplant patients receiving ciclosporin, the majority (80%) of radioactivity was recovered from the faeces, and only a minor amount (5%) was excreted in urine. Parent drug was not detected in urine and faeces.

Steady-state pharmacokinetics

Pharmacokinetics were comparable for kidney and heart transplant patients receiving everolimus twice daily simultaneously with ciclosporin for microemulsion. Steady-state is reached by day 4 with an accumulation in blood concentrations of 2 to 3-fold compared with exposure after the first dose. T_{max} occurs at 1 to 2 hours post-dose. C_{max} averages 11.1 \pm 4.6 and 20.3 \pm 8.0 ng/ml and AUC averages 75 \pm 31 and 131 \pm 59 ng.h/ml at 0.75 and 1.5 mg *b.i.d.*, respectively. Pre-dose trough blood concentrations (C_{min}) average 4.1 \pm 2.1 and 7.1 \pm 4.6 ng/ml at 0.75 and 1.5 mg *b.i.d.*, respectively. Everolimus exposure remains stable over time in the first post-transplant year. C_{min} is significantly correlated with AUC, yielding a correlation coefficient between 0.86 and 0.94. Based on a population pharmacokinetic analysis, oral clearance (CL/F) is 8.8 litres/hour (27% interpatient variation) and the central distribution volume (Vc/F) is 110 litres (36% interpatient variation). Residual variability in blood concentrations is 31%. The elimination half-life is 28 \pm 7 hours.

Special populations

Hepatic impairment

Relative to the AUC of everolimus in subjects with normal hepatic function, the average AUC in 6 patients with mild hepatic impairment (Child-Pugh Class A) was 1.6-fold higher; in two independently studied groups of 8 and 9 patients with moderate hepatic impairment (Child-Pugh Class B), the average AUC was 2.1-fold and 3.3-fold higher, respectively; and in 6 patients with severe hepatic impairment (Child-Pugh Class C), the average AUC was 3.6-fold higher. Mean half-lives were 52, 59 and 78 hours in mild, moderate and severe hepatic impairment. The prolonged half-lives delay the time to reach steady-state everolimus blood concentrations.

Renal impairment

Post-transplant renal impairment (C_{Cr} range 11-107 ml/min) did not affect the pharmacokinetics of everolimus.

Paediatric population

Fourteen paediatric *de novo* renal transplant patients (2 to 16 years) received Certican dispersible tablets at a starting dose of 0.8 mg/m^2 (maximum 1.5 mg) twice daily with ciclosporin for microemulsion. Their doses were subsequently individualised based on therapeutic drug monitoring to maintain everolimus pre-dose trough concentrations $\geq 3 \text{ ng/ml}$. At steady state, the everolimus trough level was $6.2 \pm 2.4 \text{ ng/ml}$, C_{max} was $18.2 \pm 5.5 \text{ ng/ml}$, and AUC was $118 \pm 28 \text{ ng.h/ml}$, which are comparable to adults receiving Certican targeted to similar pre-dose trough concentrations. The steady-state CL/F was $7.1 \pm 1.7 \text{ l/h/m}^2$ and the elimination half-life was $30 \pm 11 \text{ h}$ in paediatric patients.

Elderly patients

A limited reduction in everolimus oral clearance by 0.33% per year was estimated in adults (age range studied was 16-70 years). No dose adjustment is considered necessary.

Ethnicity

Based on a population pharmacokinetic analysis, oral clearance (CL/F) is, on average, 20% higher in black transplant patients. See section 4.2.

Exposure-response relationships

The average everolimus trough concentration over the first 6 months post-transplant was related to the incidence of biopsy-confirmed acute rejection and of thrombocytopenia in renal and cardiac transplant patients (see Table 22). In hepatic transplant patients, the relationship between average everolimus trough concentrations and the incidence of biopsy-proven

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acute rejection is less well defined. No correlation between higher everolimus exposure and adverse events such as thrombocytopenia has been observed (see Table 22).

Table 22 Exposure-response relationships for everolimus in transplant patients

Renal transplantation:							
Trough concentration (ng/ml)	≤3.4	3.5 - 4.5	4.6 - 5.7	5.8 - 7.7	7.8 - 15.0		
Freedom from rejection	68%	81%	86%	81%	91%		
Thrombocytopenia (<100 x 10 ⁹ /l)	10%	9%	7%	14%	17%		
Cardiac transplantation:							
Trough concentration (ng/ml)	≤3.5	3.6 - 5.3	5.4 - 7.3	7.4 - 10.2	10.3 - 21.8		
Freedom from rejection	65%	69%	80%	85%	85%		
Thrombocytopenia (<75 x 10 ⁹ /l)	5%	5%	6%	8%	9%		
Hepatic transplantation:							
Trough concentration (ng/ml)	≤3	3-8			≥8		
Freedom from treated BPAR	88%	98% 92'			92%		
Thrombocytopenia (≤75 x 10 ⁹ /l)	35%	13% 18%			18%		

5.3 Preclinical safety data

The preclinical safety profile of everolimus was assessed in mice, rats, minipigs, monkeys and rabbits. The major target organs were male and female reproductive systems (testicular tubular degeneration, reduced sperm content in epididymides and uterine atrophy) in several species, and, in rats only, lungs (increased alveolar macrophages) and eyes (lenticular anterior suture line opacities). Minor kidney changes were seen in the rat (exacerbation of age-related lipofuscin in tubular epithelium) and the mouse (exacerbation of background lesions). There was no indication of kidney toxicity in monkeys or minipigs.

Spontaneously occurring background diseases (chronic myocarditis in the rat, Coxsackie virus infection in plasma and heart in monkeys, coccidial infestation of GI tract in minipigs, skin lesions in mice and monkeys) appeared to be exacerbated by treatment with everolimus. These findings were generally observed at systemic exposure concentrations within the range of therapeutic exposure or above, with the exception of findings in rats, which occurred below therapeutic exposure due to high tissue distribution.

Ciclosporin in combination with everolimus caused higher systemic exposure to everolimus and increased toxicity. There were no new target organs in the rat. Monkeys showed haemorrhage and arteritis in several organs.

In a male fertility study in rats, testicular morphology was affected at 0.5 mg/kg and above, and sperm motility, sperm count and plasma testosterone levels were diminished at 5 mg/kg, which is within the range of therapeutic exposure and caused a decrease in male fertility. There was evidence of reversibility. Female fertility was not affected, but everolimus crossed the placenta and was toxic to the conceptus. In rats, everolimus caused embryo/foetotoxicity at systemic exposure below the therapeutic exposure, which was manifested as mortality and reduced foetal weight. The incidence of skeletal variations and malformations at 0.3 and 0.9 mg/kg (e.g. sternal cleft) was increased. In rabbits, embryotoxicity was evident by an increase in late resorptions.

Genotoxicity studies covering relevant genotoxicity endpoints showed no evidence of clastogenic or mutagenic activity. Administration of everolimus for up to 2 years did not indicate any oncogenic potential in mice and rats up to the highest doses, corresponding respectively to 8.6 and 0.3 times the estimated clinical exposure.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Butylated hydroxytoluene (E321) Magnesium stearate (E470 B) Lactose monohydrate Hypromellose Type 2910

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Crospovidone Type A Lactose anhydrous

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 years.

6.4 Special precautions for storage

This medicinal product does not require any special temperature storage conditions. Store in the original package in order to protect from light and moisture.

6.5 Nature and contents of container

Aluminium/polyamide/aluminium/PVC blister. Packs containing 50/60/100/250 tablets.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

No special requirements.

7 MARKETING AUTHORISATION HOLDER

Novartis Ireland Limited Vista Building Elm Park Merrion Road, Ballsbridge Dublin 4 Ireland

8 MARKETING AUTHORISATION NUMBER

PA0896/005/001

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation:12th December 2014 Date of last renewal: 2nd September 2016

10 DATE OF REVISION OF THE TEXT

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