Sitagliptin Phosphate Tablets IP 50 mg Slitawok-50

Not to be sold by Retail without the prescription of a Registered Medical Practitioner

Sitagliptin Phosphate Tablets IP 100 mg Sľtawok-100

1. Generic name Sitagliptin Phosphate Tablets IP 50mg/ 100 mg Sitägliptin Priosphate Tables in Song. Learning 2. Qualitative and quantitative composition Sitagliptin Phosphate Tablets IP 50 mg Sitagliptin Phosphate Monohydrate IP Equivalent to Sitagliptin Song Colours: Ferric Oxide Yellow USP-NF, Ferric Oxide Red USP-NF and Titanium Dioxide IP

Sitagliptin Phosphate Tablets IP 100 mg Each film coated tablet contains: Sitagliptin Phosphate Monohydrate IP Equivalent to Sitagliptin 100 mg Colours: Ferric Xoide Yellow USP-NF, Ferric Oxide Red USP-NF and Titanium Dioxide IP

3. Dosage form and strength Oral dosage form (Tablets) Sitagliptin 50 mg/ 100 mg

4. Clinical particulars 4.1 Charapeutic indication It is indicated as adjunct to diet and exercise to improve glycemic control in patients with type-II diabetes. In combination with Metformin and a PARNy agonist, It is indicated as an adjunct to diet & exercise in adult patients with type-2 Diabetes mellitus who are impondit your controlled on combination threapy with Metformin and a PARNy monoity. inadequately controlled on combination therapy with Metformin and a PPARy agonist. It is indicated in combination with insulin, alone or in combination with Metformin.

Limitations of Use Sitagliptin not to be used in type 1 diabetes. Has not been studied in patients with a history of pancreatilis. If of the development of pancreatilis while using Sitagliptin.

4.2 Posology and method of administration Recommended Dosing The recommended dose of Sitagliptin is 100 mg once daily. Sitagliptin can be taken with or without food. Sitagliptin should be swallowed whole. The tablets must not be split, crushed, or chewed before swallowing.

must not be spiit, crushed, or chewed before swallowing. **Recommendations for Use in Renal Impairment** For patients with an estimated glomerular filtration rate [oGFR] greater than or equal to 45 mr Singalyan is to ignore a single of the single state in the single impairment (eGR) greater than or equal to 30 mL/min1/37 millor to less than 45 mL/min1/13 millor to single sin

4.3 Contraindications History of a serious hypersensitivity reaction to Sitagliptin, such as anaphylaxis or angioedema.

4.4 Special warnings and precautions for use Pancreatitis

Pancreatitis There have been postmarketing reports of acute pancreatitis, including fatal and non-fatal haemorrhagic or necrotizing pancreatitis, in patients taking Sitagliptin. After initiation of Sitagliptin, patients should be observed carefully for signs and symptoms of pancreatitis. If pancreatitis is suspected, Sitagliptin should promptly be discontinued, and appropriate management should be initiated. It is unknown whether patients with a history of pancreatitis are at increased risk for the development of pancreatits where the using Sitagliptin.

Heart Failure An association between dipeptidyl peptidase-4 (DPP-4) inhibitor treatment and heart failure has been observed in cardiovascular outcomes trials for two other members of the DPP-4 inhibitor class.

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Acute Renal Failure Assessment of renal function is recommended prior to initiating Sitagliptin and periodically thereafter. A dosage adjustment is recommended in patients with moderate or severe renal impairment and in patients with ESRD requiring hemodialysis or peritoneal dialysis. Caution should be used to ensure that the correct dose of Sitagliptin is prescribed for patients with moderate (creatinine channes 230 to -50 mL/min) or severe (creatinine cleanance -230 mL/min) renal

There have been postmarketing reports of worsening renal function, including acute renal failure, sometimes requiring dialysis, subset of these reports involved patients with renal impairment, some of whom were prescribed inappropriate does of Sitagilptin. A return to baseline levels of renal impairment has been observed with supportive treatment and discontinuation of potentially causative agents. Consideration can be given to cautiously reinitiating Stagliptin if another etiology is deemed likely to have precipitated the acute worsening of renal function.

Sitagliptin has not been found to be nephrotoxic in preclinical studies at clinically relevant doses, or in clinical trials,

Hypoglycemia with Concomitant Use with Insulin or Insulin Secretagogues When Sitagliptin was used in combination with a sulfonylurea or with insulin, medications known to cause hypoglycemia, the incidence of hypoglycemia was increased over that of placebo used in combination with a sulfonylurea or with insulin. Therefore, a lower dose of sulfonylurea or insulin may be required to reduce the risk of hypoglycemia.

reduce the risk of hypoglycemia. Hypersensitivity Reactions There have been postmarketing reports of serious hypersensitivity reactions in patients treated with Sitagliptin. These reactions include anaphylaxis, angloedema, and exfoliative skin conditions including Stevens-Johnson syndrome. Because these reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Onset of these reactions occurred within the first 3 months after initiation of treatment with Stallplitin, with some reports occurring after the first dose. If a hypersensitivity reaction is suspected, Angloedema has also been reported with other DPP-4 inhibitors. Use caution in a patient with a history of angloedema with another DPP-4 inhibitor because it is unknown whether such patients will be predisposed to angloedema with Stagliptin.

Severe and Disabling Arthralgia There have been postmarketing reports of severe and disabling arthralgia in patients taking DPP4 inhibitors. The time to onset of symptoms following initiation of drug therapy varied from one day to years. Patients experienced relief of symptoms upon discontinuation of the medication. A subset of patients experienced a recurrence of symptoms when restarting the same drug or a different DPP4 inhibitor. Consider DPP4 inhibitors as a possible cause for severe joint pain and discontinue drug if appropriate.

Bullous Pemphigoid Postmarketing cases of bullous pemphigoid requiring hospitalization have been reported with OPP4 inhibitor use. In reported cases, patients typically recovered with topical or systemic immunosuppressive treatment and discontinuation of the DPP4 inhibitor. Tell patients to report development of bitsters or erosions while receiving Sitagliptin. If bullous pemphigoid is suspected, Sitagliptin should be discontinued and referral to a dermatologist should be considered for diagnosis and appropriate treatment.

Macrovascular Outcomes There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with Sitagliptin or any other anti-diabetic drug.

4.5 Drugs interactions Digoxin There was a different Digoxin There was a slight increase in the area under the curve (AUC, 11%) and mean peak drug concentration (Cmax, 18%) of digoxin with the co-administration of 100 mg Sitagliptin for 10 days. Patients receiving digoxin should be monitored appropriately. No dosage adjustment of digoxin or Sitagliptin is recommended.

Insulin Secretagogues or Insulin Coadministration of stragliptin with an insulin secretagogue (e.g., sulfonylurea) or insulin may require lower doses of the insulin secretagogue or insulin to reduce the risk of hypoglycemia.

4.6 Use in special populations (such as pregnant women, recently normalized partiality, geriatric patients, etc.) Pregnancy Pregnancy Pregnancy (ategory 8: Reproduction studies have been performed in rats and rabbits. Doese of Straglipt up to 125 mg/kg (approximately 12 times the human exposure at the maximu recommended human does) did not impair fertility or harm the fetus. There as however, no adequate and well-controlled studies in pregnant women. Becau animal reproduction studies are not always predictive of human response, th drug should be used during pregnancy only if clearly needed. it women. Because man response, this

Stapliptin administered to pregnant female rats and rabbits from gestation day 6 to 20 (organogenesis) was not teratogenic at oral doses up to 250 mg/kg (rats) and 125 mg/kg (rats) and 125 mg/kg (rats) and 215 mg/kg (rats) and 216 mg/kg (ra

Sitagliptin administered to female rats from gestation day 6 to lactation day 21 decreased body weight in male and female offspring at 1000 mg/kg. No functional or behavioral toxicity was observed in offspring of rats.

Placental transfer of Sitagliptin administered to pregnant rats was approximately 45% at 2 hours and 80% at 24 hours post dose. Placental transfer of Sitagliptin

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administered to pregnant rabbits was approximately 66% at 2 hours and 30% at 24 hours.

uursing motioners liagliptin is secreted in the milk of lactating rats at a milk to plasma ratio of 4:1. It is not known whether Sitagliptin is excreted in human milk. Because many drugs re excreted in human milk, caution should be exercised when Sitagliptin is dministered to a nursing woman.

Lactation There is no information regarding the presence of Sitagliptin in human milk, the effects on the breastfed infant, or the effects on milk production. Sitagliptin is present in rat milk and therefore possibly present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Sitagliptin and ary potential adverse effects on the breastfed infant from Sitagliptin or from the underlying matternal condition.

Pediatric Use Safety and effectiveness of Sitagliptin in pediatric patients under 18 years of age have not been established.

Geriatric Use Of the total number of subjects (N=3884) in pre-approval clinical safety and effcacy studies of Sitagliptin, 725 patients were 65 years and over, while 61 patients were 75 years and over. No overall differences in safety or effectiveness were observed between subjects 65 years and over and younger subjects. While this and other reported clinical experience have not identified differences in responses between the elderly and younger patients, greater sensitivity of some older individuals cannot be ruled out.

This drug is known to be substantially excreted by the kidney. Because elderly patients are more likely to have decreased renal function, care should be taken in does selection in the elderly, and it may be useful to assess renal function in these patients prior to initiating dosing and periodically thereafter.

Renal Impairment Sitagliptin is excreted by the kidney, and sitagliptin exposure is increased in patients with renal impairment. Lower dosages are recommended in patients with eGFR less than 45 mL/min/1.73 m2 (Moderate and severe renal impairment, as well as in FSRD patients requiring dialysis).

4.7 Effects on ability to drive and use machines Staglight has no or negligible influence on the ability to drive and use machines. However, when driving or using machines, it should be taken into account that dizziness and somolence have been reported. In addition, patients should be alerted to the risk of hypoglycaemia when Sitagliptin is used in combination with a Suphorphycera or with insulin.

4.8 Undesirable effects Clinical Trials Experience Because clinical trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rate observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In practice. In controlled clinical studies as both monotherapy and combination therapy with Metformin, Pioglitazone, or Rosglitazone and Metformin, the overall incidence of adverse reactions, hypoglycemia, and discontinuation of therapy due to clinical adverse reactions with Sitagliptin were similar to placebo, in combination with Gilmepride, with or without Metformin, the overall incidence of clinical adverse reactions with Sitagliptin was higher than with placebo, in part related to a higher incidence of hypoglycemia (see Table 3); the incidence of discontinuation due to clinical adverse reactions was similar to placebo.

Clinical adverse reactions was similar to placebo. Two placebo-controlled monoherapy studies, one of 18- and one of 24-week duration, included patients treated with Staglightin 100 mg daily, Staglight 200 mg daily, and placebo. Five placebo-controlled add-on combination therapy studies were also conducted: one with Metformin; one with Pioglitazone: one with Metformin and Rosiglitazone: one with Singengitide (with or without Metformin); and one with Insulin (with or without Metformin). In these trials, patients with inadequate glycemic control on a stable dose of the background therapy were randomized to add-on therapy with Staglightin 100 mg daily or placebo. The adverse reactions, excluding hypoglycemia, peroted regardless of investigator assessment of causality in 55% of patients treated with Staglightin 100 mg daily and more commonly than in patients treated with placebo, are shown in Table 1 for the clinical trials of taesar 18 weeks duration. Incidences of hypoglycemia are shown in Table 3.

Table 1. Placebo-Controlled Clinical Studies of Sitagliptin Monotherapy or Add-on Combination Therapy with Ploglitazone, Metformin + Rosiglitazone, or Glimepiride + ./ Metformin: Adverse Reactions (Excluding Hypoglycemia) Reported in \geq 5% of Patients and More Commonly than in Patients Given Placebo, Regardless of Investigator Assessment of Causality:

	Numbe	r of Patients (%)
Monotherapy (18 or 24 weeks)	Sitagliptin 100 mg	Placebo
	N = 443	N = 363
Nasopharyngitis	23 (5.2)	12 (3.3)
Combination with Pioglitazone (24 wccks)	Sitagliptin 100 mg + Pioglitazone	Placebo + Pioglitazone
	N = 175	N = 178
Upper Respiratory Tract Infection	11 (6.3)	6 (3.4)
Headache	9 (5.1)	7 (3.9)
Combination with Metformin +Rosiglitazone (18 weeks)	Sitagliptin 100 mg + Metformin + Rosiglitazone	Placebo + Metformin + Rosiglitazone
	N = 181	N = 97
Upper Respiratory Tract Infection	10 (5.5)	5 (5.2)
Nasopharyngitis	11 (6.1)	4 (4.1)
Combination with Glimepiride(+/- Metformin) (24 weeks)	Sitagliptin 100 mg + Glimepiride (+/- Metformin)	Placebo + Glimepiride (+/- Metformin
	N = 222	N = 219
Nasopharyngitis	14 (6.3)	10 (4.6)
Headache	13 (5.9)	5 (2.3)

In the 24-week study of patients receiving Sitagliptin as add-on combination therapy with Metformin, there were no adverse reactions reported regardless of investigator assessment of causality in $\gtrsim5\%$ of patients and more commonly than in patients given placebo.

In the 24-week study of patients receiving Sitagliptin as add-on therapy to insulin (with or without Metformin), there were no adverse reactions reported regardless of investigator assessment of casuality in 25% of patients and more commonly than in patients given placebo, except for hypoglycemia (see Table 3).

In particular general parterus, except for hypoglycemia (see Table 3). In the study of Sitagliptin as add-on combination therapy with Metformin and Rosiglitazone. (Table 1), through Week 54 the adverse reactions reported hypotherapy of the study of the study of the study of the study of the Sitagliptin and more commonly than in patients treated with placebo were: upper respiratory tract infection (Stagliptin, 15:5%; placebo, 6:2%), nasopharyngitis (11:0%, 9:3%), peripheral edema (8:3%, 5:2%), and headache (5:5%, 4:1%). In a pooled analysis of the two montherapy studies, the add-on to Metformin study, and the add-on to Pioglitazone study, the incidence of selected gastrointestinal pain (Stagliptin 100 mg, 2:3%; placebo, 2:1%), nausea (1:4%, 0.6%), and diarrhea (3:0%, 2:3%).

In an additional, 24-week, placebo-controlled factorial study of initial therapy with Sitagliptin in combination with Metformin, the adverse reactions reported (regardless of investigator assessment of causality) in \geq 5% of patients are shown in Table 2.

Table 2. Initial Therapy with Combination of Sitagliptin and Metformin Adverse Reactions Reported (Regardless of Investigator Assessment of causality) in \geq 5% of Patients Receiving Combination Therapy (and Greater than in Patients Receiving Metformin alone, Sitagliptin alone, and Placebo)t Number of Patients (%

	Placebo	Sitagliptin 100 mg QD	500 or 1000 mg	Sitagliptin 50 mg bid + Metformin 500 or 1000 mg bio ††
	N = 176	N = 179	$N = 364^{\dagger\dagger}$	$N = 372^{\uparrow\uparrow}$
Upper Respiratory Infection	9 (5.1)	8 (4.5)	19 (5.2)	23 (6.2)
Headache	5 (2.8)	2(1.1)	14 (3.8)	22 (5.9)

In a 24-week study of initial therapy with Sitagliptin in combination with Pioglitazone, there were no adverse reactions reported (regardless of investigator assessment of causality) in \geq 5% of patients and more commonly than in patients given Pioglitazone alone.

No clinically meaningful changes in vital signs or in ECG (including in QTc interval) were observed in patients treated with Sitagliptin.

In a pooled analysis of 19 double-blind clinical trials that included data from 10,246 patients randomized to receive Sitagliptin 100 mg/day (N=5429) or corresponding (active or placebo) control (N=4817), the includence of acute pancreatitis was 0.1 per 100 patient-years in each group (4 patients with an event in 4708 patient-years for Sitagliptin and 4 patients with an event in 3942 patient-years for control).

Hypoglycernia In all N=97 kudies, adverse reactions of hypoglycernia were based on all reports of In all N=97 kudies, adverse reactions of hypoglycernia were accompanied by a projuried although most (74%) reports of hypoglycernia were accompanied by a blood glucose measurement s70 mg/dL. When Sitagliptin was co-administered with a sufforylurea or with insulin, the percentage of patients with at least one adverse reaction of hypoglycernia was higher than in the corresponding placebo group (Table 3).

tudies when Sitagliptin wa	is used as Add-On The ulin (with or without	Placebo-Controlled Clinical rapy to Glimepiride (with or Metformin), Regardless of	
Add-On to Glimepiride	Sitagliptin 100 mg	Placebo	

(+/- Metformin) (24 weeks)	+ Glimepiride (+/-	+ Glimepiride (+/- Metformin)
	Metformin)	* ` `
	N = 222	N = 219
Overall (%)	27 (12.2)	4 (1.8)
Rate (episodes/patient-year) [‡]	0.59	0.24
Severe (%)§	0 (0.0)	0 (0.0)
Add-On to Insulin	Sitagliptin 100 mg	Placebo
Add-On to Insulin (+/- Metformin) (24 weeks)	Sitagliptin 100 mg + Insulin (+/- Metformin)	Placebo + Insulin (+/- Metformin)
	+ Insulin (+/- Metformin)	+ Insulin (+/- Metformin)
(+/- Metformin) (24 weeks)	+ Insulin (+/- Metformin) N = 322	+ Insulin (+/- Metformin) N = 319

† Adverse reactions of hypoglycemia were based on all reports of symptomatic hypoglycemia; a concurrent glucose measurement was not required; intent-to-treat population. # Based on total number of events (i.e., a single patient may have had multiple events) § Severe events of hypoglycemia were defined as those events requiring medical assistance or exhibiting depressed level/loss of consciousness or seizure.

In a pooled analysis of the two monotherapy studies, the add-on to Metformin study, and the add-on to Pioglitazone study, the overall incidence of adverse reactions of hypoglycemia was 1/2% in patients treated with Sitagliptin 100 mg and 0.9% in patients treated with placebo.

In the study of Sitagliptin as add-on combination therapy with Metformin and Rosiglitazone, the overall incidence of hypoglycemia was 2.2% in patients given add-on Sitagliptin and 0.0% in patients given add-on placebo through Week 13. Through Week 54, the overall incidence of hypoglycemia was 3.9% in patients given add-on Sitagliptin and 1.0% in patients given add-on placebo.

Sitagliptin is not extensively bound to plasma proteins. Therefore, the propensity of Sitagliptin to be involved in clinically meaningful drug-drug interactions mediated by plasma protein binding displacement is very low.

In Vivo Assessment of Drug Interactions <u>Effects of Stadightin on Other Drugs</u> In clinical studies, sitagliptin did not meaningfully alter the pharmacokinetics of metformin, glyburide, simvastatin, rosiglitazone, digoxin, warfarin, or an oral contraceptive (ethiny) estadol and norethindrone (Table 4), providing in vivo every and the studies of the vivo of the studies of the vivo studies of the studies of t

Table 4: Effect of Sitagliptin on Systemic Exposure of Coadministered Drugs
 Dose of Coadministered Drug*
 Dose of Sitagliptin*
 Geometric Mean Ratio (ratio with/without sitagliptin) No Effect = 1.00

100 mg‡ on daily for 10

days 200 mg‡ on⁄ ⁴aily for 6

days 200 mg‡ on daily for 5

200 mg‡ on daily for 5

days 200 mg‡ once daily for 11

days 200 mg‡ on daily for 21

50 mg‡ tw daily for 7

Effects of Other Drugs on Sitagliptin Clinical data described below suggest that sitagliptin is not susceptible to clinically meaningful interactions by coadministered medications (Table 5).

Table 5: Effect of Coadministered Drugs on Systemic Exposure of Sitaglipti Coadministere d Drug Coadministere d Drug* Coadministere d Drug* Coadministere Sitagliptin* drug) No Effect = 1.00

100 mg o

daily 50 mg[‡] twice daily for 7 days

AUCO-120-05.
 Auconal toxicology or Pharmacology
 Carcinogenesis, Mutagenesis, Impairment of Fertility
 Carcinogenesis, Mutagenesis, Impairment of Fertility
 Atowayea cracinogenicity study was conducted in male and female rats given oral doss of Sitagliptin of 50, 150, and 500 mg/kg/day. There was an increased incidence of combined liver adenoma/carcinoma in males and females and of liver carcinoma in females and 500 mg/kg, approximately 20 times the human exposure at the maximum economended to make a strain the maximum component and the maximum economend and the males and of 1000 mg/kg, approximately 20 times the human exposure at the MRHD. A two-year carcinogenicity study was conducted in male and female mice given oral doses of Sitagliptin of 50, 125, 250, and 5000 mg/kg, approximately 70 times human exposure at the MRHD. Sitagliptin was not mutagenic or clastogenetic with or without metabolic activation in the Ames bacterial mutagenicity assay, a Chinese hamster ovary (CHO) chromosome aberration assay, and n wito or 152, 250, and 1000 mg/kg, approximately 70 times human exposure at the MRHD. Sitagliptin was not mutagenic or clastogenetics assay in CHO, an in vitro rat hepatocyte DNA alkaline elution assay, and an in vito micronucleus assay. In rat fertility studies with on glavage doses of 152, 250, and 1000 mg/kg, approximately 70 times human exposure at the MRHD of 100 mg/day based on AUC comparison). At higher elution doses, pnodose-related increased at 125 mg/day (approximately 72 sand 100-times human exposure at the MRHD of 100 mg/day based on AUC comparison). At higher elution associated approximately 72 since floct on feraletic increased resortions in females were toxet the MRHD of 100 mg/day based on AUC comparison). At higher elution approximately 72 since floct on feraletic increased resortions in females were observed (approximately 25 since 100-times human exposure at the MRHD based on AUC comparison). At higher elution approximately 7

7. Description Sitagliptin phosphate monohydrate is described chemically as 7-(3R)-3-amino-1-soc-4-(2,4,5trifluorophenyl)btyl] -5,6,7,8-tetrahydro-3-(trifluoromethyl)-1,2,4-triazolo(4,3-a)pyrazine phosphate (1:1) monohydrate. The empirical formula is CHuFaNo-0+HoO+HoO and the molecular weight is 52,3,2. The structural formula is ::

N N N H3PO4 · H2O

It is solid in state or a viscous liquid. Sitagliptin is a white to off-powder and exhibits pH dependent aqueous solubility. It is soluble in water and N.N-dimethyl formamide, slightly soluble in methanol, soluble in ethanol, acetone and acetonitrile and insoluble in isopropanol and isopropyl acetate.

Patient counselling information Advise the patient to read the prescribing information (Medication Guide).

Pancreatilis indicate pancreatilis has been reported during postmarketing inform patients and acute pancreatilis has been reported during postmarketing sometimes relating in the back, which may or may not be accompanied by vomiting, is the halimark symptom of acute pancreatilis, instruct patients to promptly discontinue Stagliptin and contact their physician if persistent severe addominal pain occurs.

Heart Failure Inform patients of the signs and symptoms of heart failure. Before initiating Sitagliptin, ask patients about a history of heart failure or other risk factors for heart failure including moderate to severe renal impairment. Instruct patients to contact their health care provider as soon as possible if they experience symptoms of heart failure, including increasing shortness of breath, rapid increase in weight or swelling of the feet.

Hypoglycemia Inform patients that the incidence of hypoglycemia is increased when Sitagliptin is added to a sulfory/urea or insulin. Explain to patients receiving Sitagliptin in combination with these medications the risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development.

Hypersensitivity Reactions Inform patients that allergic reactions have been reported during postmarketing use of Stagliptin. If symptoms of allergic reactions (including rash, hives, and swelling of the face, lips tongue, and throat that may cause difficulty in breathing or swallowing) occur, patients must stop taking Stagliptin and seek medical advice promptly

Severe and Disabling Arthralgia Inform patients that severe and disabling joint pain may occur with this class of drugs. The time to onset of symptoms can range from one day to years. Instruct patients to seek medical advice if severe joint pain occurs.

Bullous Pemphigoid Inform patients that bullous pemphigoid may occur with this class of drugs. Instruct patients to seek medical advice if blisters or erosions occur.

-6379 ... I. No.

10. Details of Manufacturer Manufactured in India by Windlas Biotech Limited (Plant-2), Khasra No. 141 to 143 & 145, Mohabewala Industrial Area,

11. Details of Permission or Licence Number With Date Licence No.: 34/UA/2013; Dated: 03-02-2022

Marketed by: WOCKHARDT LIMITED

12. Date of Revision April 2022

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Bandra-Kurla Cor Mumbai-400 051 Regd. Trademark of Wockhardt

8. Pharmaceutical particulars 8.1 Incompatibilities Not Applicable 8.2 Shelf Life: 24 Months

8.3 Packaging Information Blister pack of 15 Tablets

Pancreatitis

Heart Failure

8.4 Storage and handling instructions: Store below 30°C. Protected from moisture

* All doses administered as single dose unless otherwise specified. † AUC is reported as AUC0-∞ unless otherwise specified. ≠ Multiple dose. § AUC0-12hr.

* All doses administered as single dose unless otherwise specified.
† AUC is reported as AUC0-∞ unless otherwise specified.
* Multiple dose.
§ AUC0-24hr.
¶ AUC0-12hr.

Simvastatin Simvastatin

Acid Rosiglitazor

S(-) Warfarin

1.09

0.85¶ 0.80

1.12¶ .06

0.98 0.99

0.95 0.89

0.99 R(+) Warfarin Ethinyl stradiol

0.99 0.97

1.03

1.02#

drug) No Effect = 1.00

1.29

Sitagliptin

Sitagliptin 1.02 C_{max}

1.68

1.05

1.18

1.01

.89

rug

Digovin

Varfarin

Ethinyl estrad

nd orethindrone

Aetformin HC

Metformin HCl

0.25 mg⁺ onc daily for 10 da

1.25 mg

20 mg

4 mg

30 mg single dose on day 5

With norethindrone 0.5 mg x 7 days 0.75 mg x 7 days, 1.0 mg x

days 1000 mg⁺ twice daily for 14 days

d Drug*

600 mg onc

daily 1000 mg[‡] twice daily for 14 days

In the 24-week, placebo-controlled factorial study of initial therapy with Sitagliptin in combination with Metformin, the incidence of hypoglycemia was 0.6% in patients given placebo, 0.6% in patients given Sitagliptin alone, 0.8% in patients given Metformin alone, and 1.6% in patients given Sitagliptin in combination with Metformin.

In the study of Sitagliptin as initial therapy with Ploglitazone, one patient taking Sitagliptin experienced a severe episode of hypoglycemia. There were no severe hypoglycemia episodes reported in other studies except in the study involving cro-administration with insulin.

Co-administration worm name.

Postmarketing Experience Additional adverse reactions have been identified during postapproval use of Sitalgitina somotherapy and/or in combination with other antihyperglycemic agents. Because these reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hypersensitivity reactions including Arthralgia, anaphylaxis, angioedema, rash, urticaria, cutaneous vasculitis, and exfoliative skin conditions including Stevens-Johnson syndrome; hepatic enzyme elevations; acute pancreatitis, including fatal and non-fatal hemorrhagic and necrotizing pancreatitis; worsening renal function, including acute renal failure (sometimes requiring dialysis); constipation; vomiting; headache, bullous pemphigoid, myalgia pain in externity; back pain; mouth ulceration; stomattik; rabdomyojsis.

4.9. Overdose During controlled clinical trials in healthy subjects, single doses of up to 800 mg Stalgliptin were administered. Maximal mean increases in QTc of 8.0 msc were observed in one study at a dose of 800 mg Stalgliptin, a mean effect that is not considered clinically important. There is no experience with doses above 800 mg in clinical studies. In Phase I multiple-dose studies, there were no dose-related clinical adverse reactions observed with Stalgliptin with doses of up to 600 mg per day for periods of up to 10 days and 400 mg per day for up to 28 days.

In the event of an overdose, it is reasonable to employ the usual supportive measures, e.g., remove unabsorbed material from the gastrointestinal tract, employ clinical monitoring (including obtaining an electrocardiogram), and institute supportive therapy as indicated by the patient's clinical status. Stagliptin is modestly dialyzable. In clinical studies, approximately 135% of the dose was removed over a 3- to 4-hour hemodialysis session. Prolonged hemodialysis may be considered if clinically appropriate. It is not known if Stagliptin is dialyzable by peritoneal dialysis.

Sitagliptin is dialyzable by peritoneal dialysis. 5 Pharmacological properties 5.1 Mechanism of Action Sitagliptin is a DPP-4 inhibitor, which is believed to exert its actions in patients with type 2 diadress by slowing the inactivation of incretin homomes, including glucagon-fike petide-1 (GP-1) and glucos-dependent insulinotropic polypeptide (GP), are released by the intestine throughout the day, and levels are increased in response to a meal. These homomes is incretin homomes, including glucagon-fike petide-1 (GP-1) and glucos-dependent insulinotopic polypeptide (GP), are released by the intestine throughout the day, and levels are increased in response to a meal. These homomes are rapidly inactivated by the enzyme, DPP-4. The incretins are part of an endogenous system involved in the physiologic regulation of glucose homestasis. When blood glucose concentrations are normal or elevated, GLP-1 and GP increase pathway, involving cyclic AMP GLP-1 also lowers glucagon secretion from pancreasic alpha cells, leading to reduced hepatic glucose production. By increasing and pelonging active incretin levels, Stagliptin increases insulin release and decreases glucagon levels in the circulation in a glucose-dependent manner. Sitagliptin demonstrate selectivity for DPP-4 and Obes not inhibit DPP-8 or DPP-9 activity in vitro at concentrations approximating those from therapeutic doses.

5.2 Pharmacodynamic properties General

5.2 Pharmacogynamic proper user General In patients with type 2 diabetes, administration of Sitagliptin led to inhibition of DPP4 enzyme activity for a 24-bhour period. After an oral glucose load or a meal, this DPP4 inhibition resulted in a 2- to 3-fold increase in circulating levels of active GLP-1 and GIP, decreased glucogon concentrations, and increased responsiveness of insulin release to glucose, resulting in higher C-peptide and insulin concentrations. The rise in insulin with the decrease in glucogon was associated with lower fasting glucose concentrations and reduced glucose excursion following an oral glucose load or a meal.

In a two-day study in healthy subjects, Sitagliptin alone increased active GLP-1 concentrations, whereas Metformin alone increased active and total GLP-1 concentrations to similar extents. Coadministration of Sitagliptin, but not Metformin, Increased active GLP-1 concentrations, Sitagliptin, but not Metformin, Increased active GLP-1 concentrations, Sitagliptin, but not Metformin, Increased active GLP-1 concentrations, Its uncleah how these findings with healthy subjects, Sitagliptin did not lower blood glucose or cause hypoglycemia.

Cardiac Electrophysiology Cardiac Electrophysiology In a randomized, placebo-controlled crossover study, 79 healthy subjects were administered a single oral dose of Sitagliptin 100 mg. Sitagliptin 800 mg (8 times the recommended dose), and placebo. At the recommended dose of 100 mg, there was no effect on the OEC interval obtained at the peak plasma concentration, or at any other time during the study. Following the 800 mg dose, the maximum increase in the placebo-corrected mean change in QC form considered to be clinically significant. At the 800 mg dose, peak Sitagliptin. plasma concentrations were approximately 11 times higher than the peak concentrations following a 100 mg dose.

In patients with type 2 diabetes administered Sitagliptin 100 mg (N=81) or Sitagliptin 200 mg (N=63) daily, there were no meaningful changes in QTc interval based on ECG data obtained at the time of expected peak plasma concentration.

based on ECG data obtained at the time of expected peak plasma concentration. **5.3 Pharmacokinetic grogereties** The pharmacokinetic sof Stragliptin has been extensively characterized in healthy subjects and patients with type 2 diabetes. After on al administration of a 100 mg dose to healthy subjects, Sitagliptin was rapidly absorbed, with peak plasma concentrations (median Taw) occurring 1 to 4 hours postdose. Plasma AUC of Sitagliptin increased in a dose-proportional manner. Following a single oral 100 mg dose to healthy volunteers, mean plasma AUC of Sitagliptin increased apparent terminal hall-life (tr.) was 12.4 hours. Plasma AUC of Sitagliptin increased apparent terminal hall-life (tr.) was 12.4 hours. Plasma AUC of Sitagliptin increased apparent terminal hall-life (tra) was data and 13.1 %). The plasma and the plasma and the site of the si

Absorption The absolute bioavailability of Sitagliptin is approximately 87%. Because coadministration of a high-fat meal with Sitagliptin had no effect on the pharmacokinetics, Sitagliptin may be administered with or without food.

Distribution The mean volume of distribution at steady state following a single 100 mg intravenous dose of Sitagliptin to healthy subjects is approximately 198 liters. The fraction of Sitagliptin reversibly bound to plasma proteins is low (38%).

Metabolism Approximately 79% of Sitagliptin is excreted unchanged in the urine with metabolism being a minor pathway of elimination.

Following a [*C] Stabilitin oral dose, approximately 16% of the radioactivity was excreted as metabolites of Stability. Six metabolites were detected at trace levels and are not expected to contribute to the plasma DPP-4 inhibitory activity of Stability in vitro studies indicated that the primary enzyme responsible for the limited metabolism of Sitagliptin was CYP3A4, with contribution from CYP2C8.

Excretion Following admin Excretion Following administration of an oral [⁴⁴C] Sitagliptin dose to healthy subjects, approximately 100% of the administered radioactivity was eliminated in feces (13%) or urine (87%) within one week of dosing. The apparent terminal tu-following a 100 mg oral dose of Sitagliptin was approximately 12.4 hours and renal clearance was approximately 350 mL/min.

Elimination of Sitagliptin occurs primarily via renal excretion and involves active tubular secretion. Sitagliptin is a substrate for human organic anion transporten-3 (ROAT-3), which may be involved in the renal elimination of Sitagliptin. The clinical relevance of NAT-3 in Sitagliptin transport has not been established. Sitagliptin is also a substrate of p-glycoproten, which may also be involved in mediating the renal elimination of Sitagliptin. However, cyclosporine, a p-glycoprotein inhibitor, did not reduce the renal clearance of Sitagliptin.

Special Populations Renal Insufficiency

An approximately 2-fold increase in the plasma AUC of sitagliptin was observed in patients with moderate renal impairment with eGFR of 30 to less than 45 mL/min/73 m2, and an approximately 4-fold increase was observed in patients with severe renal impairment, including patients with ESRD on hemodialysis, as compared to normal healthy control subjects.

repatic insufficiency in patients with moderate hepatic insufficiency (Child-Pugh score 7 to 9), mean AUC and C=m of Stagliptin increased approximately 21% and 13%, respectively, compared to heality matched controls following administration of a single 100 mg dose of Stagliptin. These differences are not considered to be clinically meaningful. No dosage adjustment for Stagliptin is necessary for patients with There is no clinical experience in patients with severe hepatic insufficiency (Child-Pugh score >9).

Effects of Age, Body Mass Index (BMI). Gender, and Race

Based on a population pharmacokinetic analysis of a composite analysis of available pharmacokinetic data, BMJ, gender, and race do not have a clinically meaningful effect on the pharmacokinetics of sitagliptin. When the effects of age on renal function are taken into account, age alone did not have a clinically meaningful impact on the pharmacokinetics of sitagliptin based on a population pharmacokinetic analysis. Elderly subjects (65 to 80 years) had approximately 19% higher plasma concentrations of sitagliptin compared to younger subjects.

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Drug Interactions In Vitro Assessment of Drug Interactions Sitagliutin is not an inhibitor of CVP Isozymes CVP3A4, 2C8, 2C9, 2D6, 1A2, 2C19 or 2B6, and is not an inducer of CVP3A4 Sitaglightin is a p-olycoprotein substrate but does not inhibit p-glycoprotein mediated transport of digioni. Based on these results, Sitagliptin is considered unlikely to cause interactions with other