LORLATIZ 25/100 Lorlatinib Tablets 25mg / 100 mg

Rx only COMPOSITION

COMPOSING LORLATIZ25 Lorlatinib Tablets 25 mg Each film coated tablet contains 25 mg

Lorlatinib 25 mg Excipients q.s. Colours: Ferric oxide red, Ferric oxide yellow & Titanium dioxide LORLATIZ 100 Lorlatinib Tablets 100 mg Each film coated tablet contains

Lorlatinib

100 mg q.s. Excipients q.s. Colours: Ferric oxide red, Ferric oxide yellow & Titanium dioxide Me O_N_N_N^Me Excipients



Containing a white to off-white powder with a pKa of 4.92. The solubility of loriatinib in aqueous media decreases over the range pH 2.55 to pH 8.02 from 32.38 mg/mL to 0.17 mg/mL. The log of the distribution coefficient (octanol/water) at pH 9 is 2.45.

classroution coefficient (octanouvater) at pH si 52.45. LORIATIZ is pupiled as tablets containing 25 mg or 100 mg of Loriatinib with the following inactive ingredients: microcrystalline colludes, dibasci calcium phosphate anhydrous, sodium starch glycolate, and magnesium stearate. The film-coating contains hydroxypropy/ inethylicalludes (HPMC) 2910/hypremellose, lactose monohydrate, macrogolopolyehylene glycol (PEG) 330, tracetin, ener oxide red, ferric oxide yellow & Tanhum dioxide

CLINICAL PHARMACOLOGY Mechanism of Action: LORLATIZ is a kinase inhibitor with in vitro

Mechanism of Action: LOPLATIZ is a kinase inhibitor with in vitro activity against LK and ROS1 as well as TYK, FER, FPS, TRKA, TRKG, FRKC, FAK, FAK2, and ACK. LOPLATIZ demonstrated in vitro activity against multiple mutant forms of the ALK enzyme, including some mutations detected in tumors at the time of disease progression on DRL ATIZ and total ALK inhibitors anboring EML4 fusions with either ALK variant 1 or ALK mutations, including the G1202R and I1171T mutations detected in tumors at the time of disease progression on ALK inhibitors, administration of LOPLATIZ resulted in antitumor activity. DGIRATIZ and work administration of LOPLATIZ antitumor activity and prolonged survival in mice implanted antitumor activity of LOPLATIZ in in vivo models was dose-dependent and correlated with inhibition of ALK phosphorylation.

dependent and correlated with inhibition of ALK phosphorylation. Pharmacodynamics Cardiac Electrophysiology: In 295 patients who received LORLATIZ at the recommended dosage of 100 mg once daily and had an ECG measurement in Study B7461001, the maximum mean change from baseline for PR Interval as 16.4 ms (2-sided 90% upper confidence interval [CI] 19.4 ms). Among the 284 patients with PR interval a200 ms after starting LORLATIZ. The prolongation 200 ms after starting LORLATIZ. The prolongation of Phinterval colored on the starting the end of the starting the starting prolongation 2200 ms after starting LORLATIZ. The prolongation Phinterval colored on a start starting LORLATIZ at the recommended to start the activity-estimating portion of Study B7461001, no large mean increases from baseline in the OTCF interval (i.e., >20 ms) were detected.

ms) were detected

pharmacokinetics. Distribution: In vitro, LORLATIZ was 66% bound to plasma

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LORLATIZ, 48% of the radioactivity was recovered in urine (<1% as unchanged) and 41% in feces (about 9% as unchanged). INDICATIONS AND USAGE

LORLATIZ is indicated for the treatment of patients with anaplastic lymphoma kinase (ALK)-positive metastatic non-small cell lung cancer (NSCLC) whose disease has progressed on . LORLATIZ and at least one other ALK inhibitor for

metastatic disease; or
LORLATIZ as the first ALK inhibitor therapy for metastatic

disea sease; or LORLATIZ as the first ALK inhibitor therapy for metastatic

dis This indication is approved under accelerated approval based on tumor response rate and duration of response

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINIS IMATION The recommended dosage of LORLATIZ is 100 mg orally once daily, with or without food, until disease progression or unacceptable toxicity. Swallow tablets whole. Do not chew, crush or split tablets. Do not ingest if tablets are broken, cracked, or otherwise not intact. Take LORLATIZ at the same time each day. If a dose is missed, then

Take LORLATIZ at the same time each day. If a dose is missed, then take the missed dose unless the next dose is due within 4 hours. Do not take an additional dose if vomiting occurs after LORLATIZ but continue with the next scheduled dose. **Dosage Modifications for Adverse Reactions** The recommended dose reductions 276 mg orally once daily • First dose reduction: LORLATIZ 50 mg orally once daily • Brannently discontinue LORLATIZ 50 mg orally once daily

Dosage modifications for adverse reactions of LORLATIZ are

Derate Soring Gran, Strate Carl, Dosage modifications for adverse reactions of LORLAI provided in Table 1. Abbreviation: XV-atrioventricular. *Grade based on National Cancer Institute (NCI) Co Terminology Criteria for Adverse Events (CTCAE) version 4.0

following adverse reactions are described elsewhere in the

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 Arrow Strong CYP3A Inducers
 Central Nervous System Effects
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- Hyperlipidemia Atrioventricular Block

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 The most common (2005) adverse reactions were edema, the set of the se

increased lipase, and increased alkaline phosphatase. Serious adverse reactions occurred in 32% of the 295 patients; the most frequently reported serious adverse reactions were pneumonia (3.4%), dyspnee (2.7%), pyrexia (2%), mental status changes (1.4%), and respiratory failure (1.4%). Fatal adverse reactions occurred in 2.7% of patients and included pneumonia (0.3%), embodims (0.3%), peripheral attery occusion (0.3%), and of adverse reactions occurred in 6.% of patients.

Adverse Reaction* Dosage Modifications

g				
Central Nervous System Effects				
Grade 1	Continue at the same dose or withhold the dose until recovery to baseline. Resume LORLATIZ at the same dose or at a reduced dose.			
Grade 2 OR Grade 3	Withhold dose until Grade 0 or 1. Resume LORLATIZ at a reduced dose.			
Grade 4	Permanently discontinue LORLATIZ			
Hyperlipidemia				
Grade 4 hypercholesterolemia <u>OR</u> Grade 4 hypertriglyceridemia	Withhold LORLATI2 until recovery of hypercholesterolemia and/or hypercholesterolemia to less than or equal to Grade 2. Resume LORLATI2 at the same dose. If severe hypercholesterolemia and/or hypertrigiveridemia recurs, resume LORLATI2 at a reduced dose.			
Atrioventricular (AV) Block				
Grade 4 hypercholesterolemia <u>OR</u> Grade 4 hypertriglyceridemia	Withhold LORLATI2 until recovery of hypercholesterolemia and/or hypercholesterolemia to less than or equal to Grade 2. Resume lorlatinib at the same dose. If severe hypercholesterolemia and/or hypertrig/yeridemia recurs, resume LORLATI2 at a reduced dose.			
Second-degree AV block	Withhold LORLATIZ until PR interva is less than 200 ms. Resume LORLATIZ at a reduced dose.			
First occurrence of complete AV block	Withhold LORLATIZ until • pacemaker placed OR • PR interval less than 200 ms. If a pacemaker is placed, resume lorlatinib at the same dose. If no pacemaker is placed, resume lorlatinib at a reduced dose.			
Recurrent complete AV block	Place pacemaker or permanently discontinue LORLATIZ.			
Interstitial Lung Disease (ILD)/Pneumonitis				
Any Grade treatment- related ILD/Pneumonitis	Permanently discontinue lorlatinib.			

Adverse Reaction*	Dosage Modifications	
Other Adverse Reactions		
Grade 1 OR Grade 2	Continue LORLATIZ at same dose or reduced dose.	
Grade 3 <u>OR</u> Grade 4	Withhold LORLATIZ until symptoms resolve to less than or equal to Grade 2 or baseline. Resume lorlatinib at reduced dose.	
Table 1 Recommended LORLATIZ Dosage Modifications for Adverse Reactions		

Tables 2 summarize common adverse reactions and laboratory abnormalities, respectively, in patients treated with Iorlatinih Abbreviations: NCI CTCAE=National Cancer Institute Common

Term inology Criteria for Adverse Events; SOC=System organ

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Sociante encourse, confilve disorder, dementia, disturbance in disorders: annesia, cognitive disorder, dementia, disturbance in attention, memory impairment, mental impairment; and also including events from SOC Psychiatric disorders: attention deficit/hyperactivity disorder, confusional state, delirium, denointhice acongradicented.

disorientation, reading disorder). ¶Speech effects (including aphasia, dysarthria, slow speech, Ispeech effects (including aphasia, dysarthma, slow speech, speech disorder) #Sleep effects (including abnormal dreams, insomnia, nightmare, sleep disorder, sleep talking, somnambulism) ÞVision disorder (including blindness, diplopia, photophobia, photopsia, vision blurred, visual acutiyr educed, visual impairment,

photopsia, vision blurred, visual acuity reduced, visual impairment, vitrous ta factaris, a musculoseletal pain, myalija). AEdema (including adema, adema peripheral, eyeli dedema, face dedma, generalized edema, Localized edema, periorbital edema, peripheral swelling, swelling). Efatigue (including asthenia, fatigue). DUpper respiratory infection (including fungal upper respiratory infection, upper respiratory infection viral upper respiratory

infection). ØRash (including dermatitis acneiform, maculopapular rash,

pruritic rash, rash

	LORLATIZ (N=295)	
Adverse Reaction*	All Grades (%)	Grade 3 or 4 (%)
Psychiatric		
Mood effects [†] 23	1.7	
Nervous system		
Peripheral neuropathy [‡]	47	2.7
Cognitive effects [§] 27	2.0	
Headache	18	0.7
Dizziness	16	0.7
Speech effects ¹ 12	0.3	
Sleep effects 10	0	
Respiratory		
Dyspnea	27	5.4
Cough	18	0
Ocular		
Vision disorder' 15	0.3	
Gastrointestinal		
Diarrhea	22	0.7
Nausea	18	0.7
Constipation	15	0
Vomiting	12	1
Musculoskeletal and connective tissue		
Arthralgia	23	0.7
Myalgia ⁵ 17	0	
Back pain	13	0.7
Pain in extremity	13	0.3
General		
Edema ^A 57	3.1	
Fatigue ^s 26	0.3	
Weight gain	24	4.4
Pyrexia	12	0.7
Infections		
Upper respiratory tract infection ^o	12	0
Skin		
Rash ^e 14	0.3	

CONTRAINDICATIONS

LORLATIZ is contraindicated in patients taking strong CYP3A inducers, due to the potential for serious hepatotoxicity

DRUG INTERACTIONS

URUGINIERACTIONS Effect of CYPA Inducers on LORLATIZ: Concomitant use of LORLATIZ with a strong CYPA inducer decreased LORLATI pasma concentrations, which may decrease the efficacy of LORLATIZ. The effect of concomitant use of LORLATIZ with a moderate CYPA inducer on LORLATIZ plasma concentrations has notbeen studied.

Tata noiseen suudied. Effect of LORLATIZ on CYP3A Substrates: Concomitant use of LORLATIZ decreases the concentration of CYP3A substrates, which may reduce the efficacy of these substrates. LORLATIZ is considered a moderate CYP3A inducer. Avoid concomitant use of LORLATIZ with CYP3A substrates, for which minimal concentration changes may lead to serious therapeutic failures. If concomitant use is unavoidable, increase the CYP3A substrate dosage in

accordance with approved product labeling

WARNINGS AND PRECAUTIONS Risk of Serious Hepatotoxicity with Concomitant Use of Strong CYP3A Inducers

Strong CYP3AInducers Severe hepatotoxicity occurred in 10 of 12 healthy subjects receiving a single dose of LORLATL with multiple daily doses of ritampin, a strong CYP3A inducer. Grade 4 alanine aminotransferase (ALT) or aspartate aminotransferase (AST) elevations occurred in 53% and Grade 2 ALT or AST elevations occurred in 33% and Grade 2 ALT or AST elevations occurred in 83%. ALT or AST elevations occurred within 3 days and returned to within normal limits after a median of 15 days (7 to 34 dows): the metrical time to recover was RA fava is subjects with days); the median time to recovery was 18 days in subjects with Grade 3 or 4 ALT or AST elevations and 7 days in subjects with Grade 2 ALT or AST elevations.

Central Nervous System Effects: A broad spectrum of central nervous system (CNS) effects can occur in patients receiving LORLATIZ. These include setures, hallicurations, and changes in cognitive function, mood (including suicidal ideation), speech, mental status, and sleep.

Hyperlipidemia: Increases in serum cholesterol and triolycerides Hypertipidemia: increases in serum cholesterol and triguceritoes can occur in patients receiving LORLATL2, Grade 3 or 4 elevations in total cholesterol occurred in 17% and Grade 3 or 4 elevations in triglycerides occurred in 17% of the 332 patients who received LORLATLZ. The median time to onset was 15 days for both hypercholesterolemia and hypertriglyceridemia.

Improvementation and improvementation of the second sec implantation loss, and abortion at maternal exposures that were equal to or less than the human exposure at the recommended dose of 100 mg once daily based on area under the curve (AUC). OVERDOSAGE

Treatment of overdose with the medicinal product consists of general supportive measures. Given the dose-dependent effect on PR interval, ECG monitoring is recommended. There is no antidote for I OBLATIZ

MON SUPPLIED LORLATIZ 25 mg & 100 mg supplied in a bottle of 30 tablets packed in a HDPE container.

Store at 25°C (77°F); excursions are permitted from 15°C to 30°C (59°F to 86°F). SHELF LIFE

24 months

MANUFACTURED & MARKETED BY: Tizig Pharma Private Limited

Factory: Tukucha, Nala-1, Banepa, Nepal. Regd. Office: Maligaun-5, Kathmandu, Nepal.