Rx only COMPOSITION LENVATIZ 4 LENVATIZ 4 Lenvatinib Capsules 4 mg Each Capsule contains Lenvatinib mesylate equivalent to Lenvatinib 4 mg Excipients q. Colours: Approved colors used in capsule si 4 mg Colours: Approved colors use LENVATI2 10 Lenvatinib Capsules 10 mg Each Capsule contains Lenvatinib mesylate equivalent to Lenvatinib

10 mg equivalent to Lenvauno Excipients q.: Colours: Approved colors used in capsule sh

H<sub>4</sub>CO. +. H₂N ¥ H-C-SO-H 

LENATIZ, a kinase inhibitor, is the mesylate shift of LenATIZ, a kinase inhibitor, is the mesylate shift oxyl, --methoxyq, incline-6-carboxamide methanesulonate. The molecular formula is G, H, GNAO, -formalis 4, --formation --History, --methoxyq, --methoxyq, --methoxyq, --exatorsamide methanesulonate. The molecular formula is G, H, GNAO, -towards the shift is poler redditive to the signification of the shift of th propy e glyco

### CLINICAL PHARMACOLOGY

CLINICAL PHARMACOLOGY Mechanism of Action: LENVATIZ is a receptor tyrosine kinase (RTK) inhibitor that inhibits the kinase activities of vascular endothelial growth factor (VEGF) receptors VEGFR (FLT1), VEGFR (KDR), and VEGFR3 (FLT4), LENVATIZ also inhibits other RTKs that have been implicated to their normal cellular functions, including fibroblast growth factor (FGF) receptors FGFR1, 2, 3, and 4; the platelet derived growth factor (FGF) events and by decreased untaining of a control and theory activity demonstrated by decreased numa endothelia coll proliferation, tube demonstrated by decreased numa endothelia coll proliferation, tube models of human renal cell cancer greater than eachdrug alone.

## Pharmacodynamics

Cardiac Electrophysiology: A single 32 mg dose (1.3 times the recommended daily dose) of LENVATIZ did not prolong the QT/QTc interval in a thorough QT study in healthy subjects. However, QT prolongation was observed in clinical studies

observed in clinical subse-Pharmacokinetics Absorption: After crait approximation of LENVATZ, time to peak platma Absorption: After crait approximation of the time of the time of the pharmacokinetic of the time of the time of the time of the time of the decreased the rate of absorption and delayed the median Tmaxtrom 2 hours

tod hours, the falle of adsorption and beingstout the integral matchine incluse in patients with solid turnors administered single and multiple doses of LENVATIZ once daily, the maximum LENVATIZ plasma concentration (Cmax) and the area indore the concentration-there urve (AUC) increased proportionally over the dose fange of 3.2 to 32 mg with a median observation of the additional additional additional additional additional Distributions in twice binding of 1.3 z to 32 mg with a median concentration rate binding of LENVATIZ to human plasma proteins ranged from 39% to 99% (0.3 – 30 µg/mL), in vitro, the LENVATIZ blowma concentration rate to ranged from 0.580 to 0.680 (0.1 – 10 µg/mL). Based on in vitro data, LENVATIZ is a substrate of P-og and BCPP but not a substrate for organic, among transporter (0.071), ANT3, organic anion (COT) 1.0CT2 or the bits alte export pump (BSEP).

Elimination: Plasma concentrations declined bi-exponentially following Cmax. The terminal elimination half-life of LENVATIZ was approximately 28

Contact. The terminal etimination internet of LETVATIL2 was applicabilitiestry co-Metabolism: CYP3A is one of the main metabolic anzymes of LENVATI2. The main metabolic pathways for LENVATI2 in humans were identified as enzymatic (CYP3A and ader)sto vidase) and non-enzymatic processes. Excretion: Ten days after a single administration of radiolabeld ELNVATI2 to patients with solid humors, apportunity 64% and 25% of the radiolabel Bonal Impairment: The pharmacokinetics of LENVATI2 following a single 24 mg does were evaluated in subjects with mild (CLcr 60-89 mL/min), real impairment, and compared to healthy subjects. Subjects with and stage radiologies are not studied. After a single 24 mg of does ULENVATI2 those for healthy subjects.

Hepatic Impairment: The pharmacokinetics of LEW-VITZ following a single Hepatic Impairment: The pharmacokinetics of LEW-VITZ following a single And moderate (Child-Fug) Bhepatic impairment. The pharmacokinetics of a single 5 mg dose were evaluated in subjects with severe hepatic impairment. Compared to subjects with severe (Child-Fugh C) hepatic impairment. Compared to subjects with severe hepatic impairment were 119%, 107%, and 180%, respectively. Effects of Age, Sex, and Race: Based on a population PK analysis, weight, age, sex, and race of the have a significant effect on apparent clearance (DBAGE Am + numerocities).

## DOSAGE AND ADMINISTRATION

CONVERTIGATION ADDAPTION INTO A DAPTION OF A

nex cose at the usual time of administration. Recommended Dose for RCC: The recommended daily dose of LENVATIZ is 18 mg (one 10 mg capsule and two 4 mg capsules) in combination with 5 mg everoilmus cally taken once daily with or without food. Continue LENVATIZ plus everoimus until disease progression or until unacceptable toxicity. Take LENVATIZ and everoimus at the same time each day. If a dose is missed and cannot be taken within 12 hours, skip that dose and take the next dose at the usual time of administration.

Administration Instructions: LENVATIZ capsules should be swallowed

whole. Alternatively, the capsules can be dissolved in a small glass of liquid. Measure 1 tablespoon of water or apple juice and put the capsules into the liquid without breaking or crushing them. Lavet the capsules in the liquid for at least 10 minutes. Stir for at least 3 minutes. Drink the mixture. After drinking, add the same amount (1 tablespoon) of water or apple juice to the virl the contents a few times and swallow the additional liquid glass. S

drinking, add the same amount (1 tablespoon) of water or appel julce to the glass. Swirt the contents a lev times and wallow the additional liquid. ADVERSE REACTIONS Contents a lev times and wallow the additional liquid. ADVERSE REACTIONS Content and the same and the same additional liquid. Lev the same additional liquid. Same additionali liquid. Same additional liquid. Same additional liquid. S

representation (1.7%) and usativiting (1.7%). Table 1 presents the percentage of patients in Study 1 experiencing adverse reactions at a higher rate in LENVATIZ capsules-treated patients than patients receiving placebo in the double-blind phase of the DTC study.

	Lenvatinib 24 mg N=261		Placebo N=131	
Adverse Reaction	All Grades (%)	Grades 3-4 (%)	All Grades (%)	Grades 3-4 (%)
Vascular Disorders				
Hypertension*	73	44	16	4
Hypotension	9	2	2	0
Gastrointestinal Disorders				
Diarrhea	67	9	17	0
Nausea	47	2	25	1
Stomatitis	41	5	8	0
Vomiting	36	2	15	0
Abdominal pain <sup>c</sup>	31	2	11	1
Constipation	29	0.4	15	1
Oral pain <sup>e</sup>	25	1	2	0
Dry mouth	17	0.4	8	0
Dyspepsia	13	0.4	4	0
General Disorders and Administration Site Conditions				
Fatigue®	67	11	35	4
Edema peripheral	21	0.4	8	0
Musculoskeletal and Co	nnective Ti	ssue Diso	rders	
Arthralgia/Myalgia	62	5	28	3
Metabolism and Nutrition Disorders				
Weight decreased	51	13	15	1
Decreased appetite	54	7	18	1
Dehydration	9	2	2	1
Nervous System Disorders				
Headache	38	3	11	1
Dvsgeusia	18	0	3	0
Dizziness	15	0.4	- 9	0
Renal and Urinary Disor			-	
Proteinuria	34	11	3	0
Skin and Subcutaneous			v	0
Palmar-plantar				
erythrodysesthesia	32	3	1	0
Bash <sup>°</sup>	21	0.4	3	0
Alopecia	12	0	5	0
Hyperkeratosis	7	0	2	0
Respiratory, Thoracic and Mediastinal Disorders				
Dysphonia	31	1	5	0
Cough	24	0	18	0
Epistaxis	12	0	1	0
Psychiatric Disorders				
Insomnia	12	0	3	0
Infections and Infestatio				5
Dental and oral infections"	10	1	1	0
Urinary tract infection	11	1	5	0
Cardiac Disorders			~	, ,
Electrocardiogram QT			, i	
prolonged	9	2	2	0

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roionged <u>9 2 2 0 0</u> Includes hypotension, hypotensive crisis, increased blood pressure diastolic, and increased blood pressure bloodse aphrotics stomatilis, glossitis, mouth ulceration, includes abdominal disconflort, abdominal pain, lower abdominal pain, upper abdominal pain, abdominal tenderness, episatic disconflort, Includes abdominal faiture, and roopharrygeal pain Includes ambung tatigute, and malaise Includes maculoskeietal pain, back pain, in externity, arthratajia, Includes maculoskeietal pain, back pain, pain in externity, arthratajia, Includes maculoskeietal pain, back pain, pain in externity, arthratajia, Includes maculoskeietal pain, back pain, pain in externity, arthratajia, Includes maculoskeietal pain, back pain, pain in externity, arthratajia,

e Includes sathenia, fatigue, and malaise Includes maculoskeletal pain, back pain, pain in extremity, arthragia, Includes maculoskeletal pain, back pain, pain in extremity, arthragia, gl includes macular rash, maculo-papular rash, generalized rash, and rash Includes gingvills, oral infection, parotitis, perioronis, periodontitis, saiadadentis, tooth abccess, and tooth infection Renal Cell Carcinoma: The data described below are derived from Study 2 for and cell acroinoma: The data described below are derived from Study 2 renal cell acroinoma: The data described below are derived from Study 2 renal cell acroinoma: (TelC) to LENVATIZ 18 mg - evenolinus 5 mg (n=51). LENVATIZ 24 mg (n=52), or evenolinus 5 mg (n=51). The median teatment develorities, and the sate secalation portion of the study who received LENVATIZ 18 mg + evenolinus 5 mg (n=51). The median teatment everolinus. Among 62 patients who received LENVATIZ + everolinus toudy 2, the median agve as 51 years, 71% were men, and 98% were White. The most common adverse reacions, observed in the LENVATIZ + everolinus. Among 62 patients who received LENVATIZ + everolinus is adominal pain, typene, rash, verolinus, patiental centra, cough, abdominal pain, dyspene, rash, verolinus, patiental centra, cough, abdominal pain, dyspene, rash, verolinus, patiental centra, cough, abdominal pain, dyspene, rash, verolinus fragenes, yevent, smal proteinuria. The most common serious adverse reactions (s 5%) were renal

failure of 11%), dehydration (10%), anemia (6%), ihrombocytopenia (5%), diarrhaia (5%), comiting (5%), and dyspnaa (5%). Adverse reactions led to dose reductions or interruption in 89% of patients receiving Lenvariable - everolimus and 54% in patients receiving everolimus. The most common adverse reactions (c 5%) resulting in dose reductions in the Lenvatinib + everolimus-treated group were diarrhae (21%), fatigue

(5%), thrombocytopenia (6%), vomiting (6%), nausea (5%), and proteinuria (5%).

(2%). Treatment discontinuation due to an adverse reaction occurred in 29% of patients in the Lenvatinib + everolimus-treated group and 12% of patients in the everolimus-treated group.

CONTRAINDICATIONS e active substance or to any of the excipients. Нуре ensitivity to th

Typerfeatibility to use eavier substance on use in your to the Sequence. DRUG INTERACTIONS Effect of Other Drugs on Lenvatiib No dose adjustment of LEVVATIZ is recommended when co-administered with CYF3A, Polycoprotein (P-gp), and breast cancer resistance protein (BCAP) inhibitions and CYF3A and P-gp inducers.

(BCHP) iminations and CYP3A and P-gp inducers. WARNINGSAMD-PRECAUTIONS Hypertension: In Study 1 in DTC, hypertension was reported in 73% of the study of the transformation of the study of the study of the study median time to created in area or various in the study of the study of the LEWATL2 treated patients. The incidence of Grade 3 hypertension was 44% as compared to 4% for placebo, and the incidence of Grade 4 hypertension was less than 1% in LEWATL2 treated patients and none in the placebo provide the study of the study in the placebo provide the study of the study of

44% as compared to the two processing of two processing

least monthy therarditer during treatment with LEXVAIL2. Withhold therary: resume at a reduced dose when hypetension is controlled at less than or equal to Grade 2. Discontinue LEXVATI2 for life-threatening hypetension. The Study 1 in DTC, cardiac latentiation of the study o

ALT and 3% experienced an increase in AS1 trait was grade to questeen two percent of patients in the evenimus-treated group experienced an Monitor liver function before initiation of LENNATL, then every 2 weeks for the first 2 months, and at least monthly thereather during treatment. Without resolved to grade to be tor baseline. Either ressure at a reduced does or discontinue LENNATL depending the severity and persistence of hegatoxicity. Discontinue LENNATL2 for hegatic latture. The severe of the severity and persistence of discontinue LENNATL2 depending on the severity and persistence or discontinue LENNATL2 for hegatic latture. Incidence of grade 3 proteinum in Lenvariabi-treated patients was 11% compared to none in the placebog group. In study 2 in CCC, proteinum a terpo and 11%, of patients in the everolimus-treated patients and 3% of patients in the placebog group. The incidence of grade 3 proteinum a terpo and 11%, of patients in the everolimus-treated gradents. Intervalition-treated gradents, and the severity and periodically throughout treatment. If unite displacebog group. The incidence of grade 3 proteinum relations and the applications are treated and the severity throughout treatment. If unite displacebog group. The incidence of grade 3 displaceto proteinums-treated gradents. Reveal field the displacebog group. The incidence of grade 3 displaceto treatment. If unite displacebog group. The incidence of grade 3 displaceto and a 24 hour unne protein. Withhold Lenvalin for 22 grams of proteinums-treated gradents. Reveal field the displacebog group. The incidence of grade 3 displaceto 2% of platents in the placebog group. The incidence of grade 3 displaceto and the displacebog group. The incidence of grade 3 displaceto and the displaceto of grade 3 displaceto applants. Reveal field the displaceto group and 2% in the everolimus-treated platence of grade 3 displaceto applants in the placeto displaceto group. The incidence of grade 3 displaceto displaceto displaceto displaceto displaceto displaceto displac

impairment. Gastrointestinal Perforation and Fistula Formation: In study 1 in I events of gastrointestinal perforation or fistula were reported in 2<sup>2</sup> Lonvatinib-treated patients and 0.8% of patients in the placebo grou study 2 in RCC, grade 3 or greater gastrointestinal perforation, abscer DTC

fistula was reported in 2% of patients in the Lervatinib + neverolimus-treated provide the second s

Desing as necessary depending on severiny, presence of E-US changes, and Reversible Posterior Leukoencerphalopathy syndrome: Across clinical studies in which 150 patients received LENVATIZ monotherapy, there were (PFLS). Continue the diagnosis of PFLS with MRI: Withhad for PFLS until fully resolved. Upon resolution, resume at a reduced dose or discontinue EVVATIZ deventing on the severity and presistence of neurologic EVVATIZ deventing on the severity and presistence of neurologic

LENVATIZ depending on the severity and persistence of neurologic symptoms. Embryofetant Acidity: Exact on this mechanism or action and data from Embryofetant Acidity. Exact on this mechanism or action and data from administered to a pregnant vorsam. In animal reproduction studies, oral administration of LENVATIZ during organogenesis at dosses below the recommended human dose resultéd in embryotocity, fetotoxicity, and teratogenicity in rats and rabbis. Advise pregnant women of the potential tick to a fetus. Advise females of reproductive potential to use effective contraception during treatment with LENVATIZ and for at least 2 weeks **AUREDING ACE**.

### OVERDOSAGE

OVENUOSAGE There is no specific antidote for overdose with LENVATIZ. Due to the high plasma protein binding, LENVATIZ is not expected to be dalyzable. Adverse reactions in patients receiving single doese of LENVATIZ as high as 40 mg were similar to the adverse events reported in the clinical studies at the recommerked dose for DTC and RCC.

HOW SUPPLIED LENVATIZ 4 & 10 supplied as 30 Capsules packed in a HDPE container.

STORAGE Store at 25°C (77°F); excursions permitted between 15°C to 30°C (59 °F to 86°F).

# SHELF LIFE

MANUFACTURED & MARKETED BY:

Tizig Pharma Private Limited Factory: Tukucha, Nala-1, Banepa, Nepal. Regd. Office: Maligaun-5, Kathmandu, Nepal.