For the use only of a Registered Medical Practitioner or a Hospital or a Laboratory



# Amlodipine + Metoprolol (ER) Tabelts

## ACTIBLOK® AM 25/50

COMPOSITION

ACTIBLOK AM® 25 Each film coated tablet contains

Amlodipine Besilate IP

Equivalent to Amlodipine Metoprolol Succinate USP 5 mg 23.75 mg

Equivalent to Metoprolol Tartrate 25 mg

Colours: Ponceau 4R & Titanium Dioxide IP

ACTIBLOK AM<sup>®</sup> 50 Each film coated tablet contains: Amlodipine Besilate IP

Equivalent to Amlodipine

Metoprolol Succinate USP 47.5 mg
Equivalent to Metoprolol Tartrate 50 mg

(as extended release form) Colours: Sunset Yellow & Titanium Dioxide IP

PHARMACEUTICAL FORM

PHARMACOLOGICAL PROPERTIES

Pharmacodynamic Properties
Pharmacotherapeutic group: Metoprolol and other antihypertensives

ATC Code: C07FB02

Amlodipine besilate is the besilate salt of amlodipine, a long-acting calcium channel blocker. Amlodipine besilate is chemically Artifyline Bestalet i Seesialet saan a mount a bright and the state of the state of

Metoprolol succinate as extended-release form (Metoprolol ER)
Metoprolol is a beta<sub>i</sub>-selective (cardioselective) adrenoceptor blocker for oral administration. Its chemical name is (±)-1-(isopropylamino)-3-[p-(2-methoxyethyl) phenoxy]-2-propanol succinate (2:1) (salt). Molecular formula is (C, H, NO,), C, H, O, and

Metoprolol succinate is a white crystalline powder. It is freely soluble in water, soluble in methanol, sparingly soluble in ethanol, slightly soluble in dichloromethane and 2-propanol; practically insoluble in ethyl acetate, acetone, diethylether and heptane.

Mechanism of Action Amlodipine/Metoprolol ER

Amioapine/wetoproiotix

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Amiodipine is a dihydropyridine calcium channel blocker and metoprolol is a beta, (, ,)-selective (cardioselective) adrenergic receptor blocking agent. Amiodipine inhibits their contractle process (genum calcium concentration is not affected), it is also a peripheral arterial vasodilator that acts directly on vascular smooth muscle to cause a reduction in peripheral vascular resistance and reduction in blood pressure by which relieves anging (exertional and vasospastic). Metoprola so no intrinsic sympathomimetic activity, and membrane-stabilizing activity is detectable only at plasma concentrations much greater than required for "holickade". required for -blockade

### Pharmacokinetic Properties

Pharmacokinetic Properties
<u>Absorption</u>:
After oral administration of amlodipine, a peak plasma concentration is achieved between 6 to 12 hours and absolute
bloavailability has been estimated between 64% to 90%. The plasma levels of conventional metoprolol is 50%, (indicates first
pass metabolism) to that of its intravenous administration. The plasma levels of metoprolol following administration of
metoprolol ER is characterized by lower peaks, longer time to peak and significantly lower peak to trough variation and at steady
state, the average bioavailability of metoprolol across the dosage range of 50 to 400 mg once daily, was 77% relative to
conventional metoprolol in its corresponding single or divided doses. The bioavailability of metoprolol ER (in case of increased
dose to 400 mg once daily) and amlodipine is not altered by the presence of food.

Distribution and Metabolism:

Ambidipine is extensively (about 90%) converted to inactive metabolites via hepatic metabolism with 10% of the parent compound and 60% of the metabolites excreted in the urine whereas, metoprolol is primarily metabolized by CYP2D6 and exhibits stereoselective metabolism that is dependent on oxidation phenotype. Concomitant use of CYP2D6 inhibiting drugs in poor metabolizers will increase blood levels of metoprolol several-fold, decreasing metoprolol's cardioselectivity (see section Drug Interactions). Metoprolol crosses the blood-brain barrier and has been reported in the CSF in a concentration 78% of the simultaneous plasma concentration. Only a small fraction of the drug (about 12%) is bound to human serum albumin.

Elimination:
Elimination of amlodipine from the plasma is biphasic with a terminal elimination half-life of about 30-50 hours and its steady-state plasma levels are reached after 7 to 8 days of consecutive daily dosing. The plasma half-life of metoproiol ranges from 3 to 7 hours and less than 5% of an oral dose of metoprolol is recovered unchanged in the urine.

Renal insufficiency

 $The pharmacokinetics of amlodipine/metoprolol\,ER is not significantly influenced by renal impairment.\ Patients with renal failure may therefore can take the usual initial dose (see section Posology and Method of Administration).$ 

Geriatric and Henatic insufficiency:

Default. aid repeate its Uniterative. But feeting the testing the hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy (see section Posology and Method of Administration).

Pediatric use:

The pharmacokinetic profile of amlodipine (1.25 mg to 20 mg) and metoprolol ER (12.5 mg to 200 mg) once daily, studied in pediatric hypertensive patients (6 to 17 years of age) was similar to adults. Age, gender, race, and ideal body weight had no significant effect. Amlodipine and metoprolol pharmacokinetics have not been investigated in patients < 6 years of age (see section Posology and Method of Administration).

Precirrical sarrety uses Carcinogenicity uses and mice, treated with amiodipine maleate (at dosage levels of 0.5, 1.25, and 2.5 mg/kg/day) and rats treated with metoprolol tartarate (at 3 oral dosage levels of up to 800 mg/kg/day, 41 times, on a mg/m² basis, the daily dose of 200 mg for a 60 kg patient) in the diet for up to 2 years, showed no evidence of a carcinogenic effect, inspite of some histological changes like increased incidence of generally mild focal accumulation of foamy macrophages in pulmonary alveoli and a slight increase in

A 21 month study in Swiss albino mice treated with metoprolol at 3 oral dosage levels of up to 750 mg/kg/day (18 times, on a mg/m² basis, the daily dose of 200 mg for a 60 kg patient), showed benign lung tumors (small adenomas) more frequently in female mice which received the highest dose compared to untreated control animals. Whereas, the same 21 month study which was repeated in CD-1 mice showed no statistically or biologically significant differences between treated and control mice of either sex for any type of tumor.

All genotoxicity tests performed on metoprolol tartrate (a dominant lethal study in mice, chromosome studies in somatic cells, a Salmonellalmammalian-microsome mutagenicity test, and a nucleus anomaly test in somatic interphase nuclei) and metoprolol

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succinate (a Salmonellalmammalian-microsome mutagenicity test) were negative and no drug related mutagenicity and was detected due to amlodipine at either the gene or chromosome level.

<u>Fertility</u>
There was no effect on the fertility of rats treated orally with amlodipine maleate (males for 64 days and females for 14 days prior to mating) at doses up to 10 mg amlodipine/kg/day (8 times the maximum recommended human dose of 10 mg/day on mg/m² basis) and on rats treated with metoprolol (at doses up to 22 times, on mg/m² basis, the daily dose of 200 mg in a 60 kg patient) based on patient weight of 50 kg.

CLINICAL PARTICULARS

Therapeutic Indications

• Hypertension

- Angina pectoris
- Symptomatic (NYHA Class II or III) heart failure of ischemic, hypertensive, or cardiomyopathic origin
- Chronic Artery Diseases (CAD)
  - Chronic stable angina
  - · Vasospastic angina (Prinzmetal's or Variant Angina)
  - · Angiographically documented CAD

Posology and Method of Administration

Adults:

Individualize the dosage of amlodipine and metoprolol ER. The usual initial antihypertensive dose range of amlodipine and metoprolol ER is 5 mg to 10 mg and 25 mg to 100 mg respectively once daily. For angina, the single oral dose of metoprolol ER is 100 mg daily. The metoprolol dosage may be increased at weekly (or longer) intervals until optimum blood preser reduction (for hypertension) and pronounced slowing of heart rate (for angina) is achieved. Dosages above 400 mg of metoprolol per day have not been studied. In general, the maximum effect of any given dosage level will be apparent after 1 week of therapy, so titration should proceed over 7 to 14 days so that the physician can fully assess the patient's response to each dose level.

Geriatric and Hepatic Impairment:
Amlodipine, when given in combination with other anti-hypertensive therapy or to the small, fragile, elderly patients and patients with hepatic insufficiency may be started on 2.5 mg once daily. For metoprolol ER, dose selection should be cautious (see section Pharmacokinetic Properties).

Tection 1.5.

The effective antihypertensive oral dose of amlodipine in pediatric patients ages 6 to 17 years is 2.5 mg to 5 mg once daily. Though, metoproliol ER failed to reduce systolic blood pressure, SBP primary end point) in a pediatrouly, it demonstrated its effectiveness in other endpoints. If metoproliol ER is selected for treatment, the recommended starting dose of \$1.0 mg/kg once daily, with maximum initial dose not exceeding 50 mg once daily. Dosage should be adjusted according to blood pressure response. Doses in excess of 5 mg and 200 mg of amilodipine and metoprolic ER respectively, once daily, have not been studied in pediatric patients. Amilodipine and metoproloiER is not recommended in pediatric patients - 6 years of age (see section Special Warnings and Precautions for Use).

Heart Failure:

Heal trailute:

Dosage of metoprolol ER must be individualized and closely monitored during up-titration. Prior to initiation of metoprolol ER, stabilize the dose of other heart failure drug therapy. The recommended starting dose of metoprolol ER is 5 mg once aduly for 2 weeks in patients with NYHA class liheart failure and 12.5 mg once daily in patients with more severe heart failure. Double the dose every 2 weeks to the highest dosage level tolerated by the patient or up to 200 mg of metoprolol ER. If patients experience symptomatic bradycardia, reduce the dose of metoprolol ER. If transient worsening of heart failure occurs, consider treating with increased dose of diuterlics. I owering the dose of metoprolol ER or temporarily discontinuing it. The dose of metoprolol ER should not be increased until symptoms of worsening heart failure have been stabilized.

Amlodipine and metoprolol ER tablets are contraindicated in patients who are hypersensitive to any component of this product, and also in bradycardia, heart block greater than first degree, cardiogenic shock, decompensated cardiac failure, sick sinus syndrome (unless a permanent pacemaker is in place).

Special Warnings and Precautions for Use

Hypotension:
Symptomatic hypotension is possible, particularly in patients with severe aortic stenosis. Because of the gradual onset of action, acute hypotension is unlikely.

Increased Angina and/or Myocardial Infarction:
Worsening angina and acute myocardial infarction can develop after starting or increasing the dose of amiodipine besylate, particularly in patients with severe obstructive coronary artery disease

Beta-Blocker Withdrawal:

Amlodipine is not a -blocker and therefore gives no protection against the dangers of abrupt -blocker withdrawal; any such withdrawal should be by gradual reduction of the dose of -blocker.

Patients with Hepatic Failure:

Since amlodipine is extensively metabolized by the liver and the plasma elimination half-life  $(t_n)$  is 56 hours in patients with impaired hepatic function, caution should be exercised when administering amlodipine to patients with severe hepatic impairment (see section Posology and Method of Administration).

Consider initiating metoprolol ER therapy at doses lower than those recommended for a given indication. Gradually increase dosage to optimize therapy, while monitoring closely for adverse events.

An alpha ( )-blocking agent should be initiated prior to the use of any -blocking agent.

Patients with bronchospastic diseases should not receive -blockers, because of its relative ,-selectivity, However, returns with unincipalistic cleases should not receive "Judicials", exclude in Israelande "selectivity," nowers, metoprolof ER may be used with caution in patients with bronchospastic disease who do not respond to, or crospond to, or call the antihypertensive treatment. A "stimulating agent should be administered concomitantly, and the lowest possible dose of metoprolol ER should be used.

Major Surgery:
Avoid initiation of a high-dose regimen of metoprolol ER in patients undergoing non-cardiac surgery, since such use in patients with cardiovascular risk factors has been associated with bradycardia, hypotension, stroke and death. Chronically administered -blocking therapy should not be routinely withdrawn prior to major surgery, because the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures.

<u>Diabetes and Hypoglycemia:</u>
Metoprolol ER should be used with caution in diabetic patients, if a -blocking agent is required. Beta-blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected.

Beta-adrenergic blockade may mask certain clinical signs (e.g., tachycardia) of hyperthyroidism. Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of -blockade, which might precipitate a thyroid storm.

Peripheral Vascular Disease:

i-blockers can precipitate or aggravate symptoms of arterial insufficiency in patients with peripheral vascular disease. Caution should be exercised in such individuals.

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## ACTIBLOK<sup>®</sup> AM 25/50

<u>LaboratoryTests:</u>
Clinical laboratory findings may include elevated levels of serum transaminase, alkaline phosphatase, and lactate dehydrogenase

## Drug Interactions

 $\label{eq:amlodipine} \emph{Amlodipine} \\ \emph{The effect of and on following drugs when co-administered with amlodipine} \\$ 

Drug class/drugs	Comments	
Cimetidine, grapefruit Juice, magnesium and aluminum hydroxide antacid, sildenafil, atorvastatin,digoxin,ethanol, erythromycin, warfarin	> No effect on the pharmacokinetics	
Simvastatin	> Increased the exposure of the drug	
Diltiazem, ketoconazole, itraconazole, ritonavir	Increased amlodipine systemic exposure	

The effect of and on following drugs when co –administered with metoprolol ER

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Drug/drug class	Comments
Catecholamine Depleting Drugs: Reserpine, monoamine oxidase (MAO) inhibitors	Additive effect when given with beta-blocking agents     Hypotension or marked bradycardia, vertigo, syncope, or postural hypotension.
CYP2D6 Inhibitors Quinidine, fluoxetine, paroxetine and propafenone	Increase metoprolol concentration     Decrease the cardioselectivity of metoprolol.
	➤ Risk of bradycardia.
Digitalis, Clonidine, and Calcium Channel Blockers (diltiazem and verapamil)	Withdraw the beta-blocker several days before the gradual withdrawal of clonidine because, -blockers may exacerbate the rebound hypertension that can follow the withdrawal of clonidine.
	If replacing clonidine by beta-blocker therapy, delay the introduction of beta-blockers for several days after clonidine administration has stopped.

## Pregnancy and Lactation

<u>Pregnancy Category C:</u>

No evidence of teratogenicity or other embryo/fetal toxicity was found in rats (treated with metoprolol tartarate at doses up to 22 times, on mg/m² basis, the daily dose of 200 mg in a 60 kg patient) and in pregnant rats and rabbits (treated with amlodipine maleate at doses up to 10 mg amlodipine/kg/day, 8 times² and 23 times² respectively ,the maximum recommended human dose of 10 mg on a mg/m² basis) during their respective periods of major organogenesis. However, increased post-implantation, decreased neonatal survival, prolonged gestation period, increased duration of labor, in case of metoproid and uffitter size reduction (about 50%) increase in intrauterine deaths in rats in case of ambidipine was observed. There are no adequate and well-controlled studies of amlodipine and metoprolol in pregnant women. Because animal reproduction studies are not always predictive of human response, use this drug combination during pregnancy only if clearly needed. Based on patient weight of 50 kg.

<u>Lactation:</u>
Metoprolol is known to be excreted in milk in very small quantities, whereas it is not known whether amlodipine is excreted in human milk. In the absence of this information, it is recommended that nursing be discontinued while amlodipine and

## Effects on Ability to Drive and Use Machines

Amlodipine and metoprolol may affect the ability to drive and operate machinery. Patients should be warned accordingly. These effects may possibly be enhanced in case of concomitant ingestion of alcohol or after changing to another medicinal product.

## Amlodipine

Most adverse reactions reported during therapy with amlodipine were of mild or moderate severity.

<ul> <li>Headache, edema dizziness, flushing</li> </ul>	and palpitation.
Adverse Effects >1.0%	
<ul> <li>Fatigue, nausea, abdominal pain and</li> </ul>	d somnolence
Adverse Effects <1% but >0.1%	
General	Allergic reaction, asthenia, back pain, hot flushes, malaise, pain, rigors, weight gain, weight decrease.
Cardiovascular	Arrhythmia (including ventricular tachycardia and atrial fibrillation), bradycardia, chest pain, hypotension, peripheral ischemia, syncope, tachycardia, postural dizziness, postural hypotension, vasculitis.
Central and Peripheral Nervous System	Hypoesthesia, neuropathy peripheral, paresthesia, tremor, vertigo.
Gastrointestinal	Anorexia, constipation, dyspepsia, dysphagia, diarrhea, flatulence, pancreatitis, vomiting, gingival hyperplasia.
Musculoskeletal System Psychiatric	Arthralgia, arthrosis, muscle cramps, myalgia, sexual dysfunction (male and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization.
Respiratory System	> Dyspnea, epistaxis.
Skin and Appendages	Angioedema, erythema multiforme, pruritus, rash, rash erythematous, rash maculopapular.
Special Senses	➤ Abnormal vision, conjunctivitis, diplopia, eye pain, tinnitus.
Urinary System	➤ Micturition frequency, micturition disorder, nocturia.
Autonomic Nervous System	> Dry mouth, sweating increased
	> Hyperglycemia, thirst.
Metabolic and Nutritional	

Cardiac failure, pulse irregularity, extrasystoles, skin discoloration, urticaria, skin dryness, alopecia, dermatitis, muscle weakness, twitching, ataxia, hypertonia, migraine, cold and clammy skin, apathy, agitation, amnesia, gastritis, increased appetite, loose stools, coughing, rhinitis, dysuria, polyuria, parosmia, taste perversion, abnormal visual accommodation and xerophthalmia

### Postmarketing Experience

Gynecomastia, jaundice and hepatic enzyme elevations (mostly consistent with cholestasis or hepatitis

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#### Metoprolol FR

Adverse Reactions (-1 1%)   Dizziness, vertigo, bradycardia, accident/or injury.   Dizziness, vertigo, bradycardia, apcident/or injury.   Dizziness, vertigo, bradycardia, apcident/or injury.   Dizziness, vertigo, bradycardia, hypotension, stroke   Post-Marketing Experience   Central Nervous System   Confusion, short-term memory loss, headache, somnol insomnia, anxiety/nervousness, hallucinations, paresthe	
Post-Marketing Experience  Central Nervous System  Cardiovascular  Cardiovascular  Cold extremities, arterial insufficiency (usually of the Raperipheral edema, syncope, chest pain and hypotension  Respiratory  Wheezing (bronchospasm) and dyspnea.  Castrointestinal  Aususea, dry mouth, constipation, flatulence, heartburn rare reports of hepatilis, jaundice and non-specific heperases of transaminase, alkaline phosphatase, and lactic  Hypersensitive Reactions  Niscellaneous  Musculoskeletal pain, arthralgia, blurred vision, decreas tinnitus, reversible alopecia, agranulocytosis, dry eye Peyronies disease, sweating, photosensitivity, taste dist  Potential Adverse Reactions  [Adverse reactions reported with other -adrenergic blocking agents (not listed above)]  Pruffus or ash, worsening of psoriasis  Potential Adverse Reactions  [Adverse reactions reported with other -adrenergic blocking agents (not listed above)]  Pruffus or adverse depression progressing to catatonia, characterized by disorientation for time and place, emotional lability, clouded sensorium and decreuropsychometrics.  Hematologic  Agranulocytosis, nonthrombocytopenic purpura, throm	
Central Nervous System	
insomnia. anxiety/nervousness, hallucinations, paresthe  Cardiovascular  Cold extremities, arterial insufficiency (usually of the Raperipheral edema, syncope, chest pain and hypotension  Respiratory  Wheezing (bronchospasm) and dyspnea.  Castrointestinal  Nausea, dry mouth, constipation, flatulence, heartburn rare reports of hepatitis, jaundice and non-specific hep- cases of transaminase, alkaline phosphatase, and lactic  Hypersensitive Reactions  Nusculoskeletal pain, arthralgia, blurred vision, decreas tinnitus, reversible alopecia, agranulocytosis, dry eye Peyronies disease, sweating, photosensitivity, taste dist  Potential Adverse Reactions  [Adverse reactions reported with other -adrenergic blocking agents (not listed above)]  Reversible mental depression progressing to catatonia, characterized by disorientation for time and place, emotional tability, clouded sensorium and decr neuropsychometrics.	
Respiratory	
Sastrointestinal   Sastrointes	
rare reports of hepatitis, jaundice and non-specific hep- cases of transaminase, alkaline phosphatase, and lactic  Hypersensitive Reactions  > Pruritus or rash, worsening of psoriasis  > Musculoskeletal pain, arthralgia, blurred vision, decreas tinnitus, reversible alopecia, agranulocytosis, dry eye Peyronie's disease, sweating, photosensitivity, taste dist  Potential Adverse Reactions [Adverse reactions reported with other -adrenergic blocking agents (not listed above)]  Central Nervous System  > Reversible mental depression progressing to catatonia, characterized by disorientation for time and place, emotional lability, clouded sensorium and decr neuropsychometrics.  Hematologic  > Agranulocytosis, nonthrombocytopenic purpura, throm	
Miscellaneous  Miscel	atic dysfunction. Isolated
tinnitus, reversible alopecia, agranulocytosis, dry eye Peyronies disease, sweating, photosensifivity, taste dist Potential Adverse Reactions [Adverse reactions reported with other -adrenergic blocking agents (not listed above)]  Central Nervous System  Reversible mental depression progressing to catatonia, characterized by disorientation for time and place, emotional lability, clouded sensorium and decr neuropsychometrics.  Hematologic  Agranulocytosis, nonthrombocytopenic purpura, throm	
Adverse reactions reported with other -adrenergic blocking agents (not listed above)	s, worsening of psoriasi
Reversible mental depression progressing to catatonia, characterized by disorientation for time and place, emotional lability, clouded sensorium and decr neuropsychometrics.  Hematologic  Agranulocytosis, nonthrombocytopenic purpura, throm	
characterized by disorientation for time and place, emotional lability, clouded sensorium and decr neuropsychometrics.  Hematologic > Agranulocytosis, nonthrombocytopenic purpura, throm	
9 3 1 1 1 1	short-term memory loss
I and the Decides of the Control of	bocytopenic purpura.
Hypersensitive Reactions > Laryngospasm, respiratory distress.	
<u>Laboratory Test Findings</u>	

## Overdose

Amoupine
Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited. If massive overdose should occur, initiate active cardiac and respiratory monitoring. Frequent blood pressure measurements are essential. Should hypotension occur, provide cardiovascular support including elevation of the extremities and the judicious administration of fluids. If hypotension remains unresponsive to these conservative measures, consider administration of vasopressors (such as phenylephrine) with attention to circulating volume and urine output. As amlodipine is highly protein bound, hemodialysis is not likely to be for hemefit. likely to be of benefit.

There is no specific antidote. Beta-blocker overdose may result in significant resistance to resuscitation with adrenergic agents, including beta-agonists. On the basis of the pharmacologic actions of metoprolol, employ the following measures

Bradycardia;
Administer intravenous atropine; repeat to effect. If the response is inadequate, consider intravenous isoproterenol or other positive chronotropic agents. Evaluate the need for transvenous pacemaker insertion

Treat underlying bradycardia. Consider intravenous vasopressor infusion, such as dopamine or norepinephrine.

Administer a 2-agonist, including albuterol inhalation, or an oral theophylline derivative.

Cardiac Failure: Administer diuretics or digoxin for congestive heart failure. For cardiogenic shock, consider IV dobutamine,

There is very limited experience with the use of hemodialysis to remove metoprolol, however, metoprolol is not highly protein

#### PHARMACEUTICAL PARTICULARS Incompatibilities

Not applicable

Shelf Life

24 months

Storage and Precautions Store in cool, dry place

Keep out of reach of children

Special Precautions for Disposal and Other Handling Tablet to be swallowed as whole and not to be chewed or crushed.

### Nature and Contents of Container

Each pack consists 10 tablets in a blister; such 10 blisters in carton, along with pack insert

## MANUFACTURED BY

WINDLAS Biotech Limited 40/1, Mohabewala Industrial Area, SBI Road, Dehradun – 248 110

### MARKETED BY

BIOCON Limited, 20th KM, Hosur Road, Electronics City, Bangalore 560100

Registered trademark of Biocon Limited

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To report adverse events and/or product complaints visit our website www.biocon.com or call toll free No: 1800 102 9465 or e mail us at drugsafety@biocon.com