

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Eto MR Gel

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each gram contains:

Aceclofenac BP	1.5%w/w
Thiocolchicoside BP	0.125%w/w
Linseed oil BP	3.0 %w/w
Menthol BP	5.0% w/w
Methyl Salicylate BP	10.0 % w/w
Capsaicin USP	0.01 %w/w

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

White to off white colour Gel

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Eto Mr Gel is a topical formulation used to relieve joint pain from arthritis. Aceclofenac belongs to a class of drugs known as non-steroidal anti-inflammatory drugs (NSAIDs).

4.2. Posology and method of administration

Use in Adults: Eto Mr Gel is applied locally to the skin 2 times daily and smoothed into the skin gently. The amount needed depends on the size of the lesion. Normally 0.5 grams (the size of a pea) of the gel is used on a 5 cm x 5 cm lesion site. The usual duration of therapy is from 60 to 90 days.

Maximum efficacy has been observed with treatment duration towards the upper end of this range. Complete healing of the lesion(s) or optimal therapeutic effect may not be evident for up to 30 days following cessation of therapy. A maximum of 8 grams daily should not be exceeded. Long term efficacy has not been established.

Use in the Elderly: The usual adult dose may be used.

Use in Children: Dosage recommendations and indications for the use of Eto MR Gel have not been established for use in children.

4.3. Contraindications

Eto Mr Gel is contraindicated in patients with a known hypersensitivity to Aceclofenac, or any of the inactive ingredients.

Because of cross-reactions, the gel should not be used by patients who have experienced hypersensitivity reactions such as symptoms of asthma, allergic rhinitis or urticaria, to acetylsalicylic acid or other non-steroidal anti-inflammatory agents.

The use of Eto Mr Gel is contraindicated during the third trimester of pregnancy.

4.4. Special warnings and precautions for use

The likelihood of systemic side effects occurring following the topical application of

Eto Mr Gel is very small compared to the frequency of side effects with oral Aceclofenac, owing to low systemic absorption with Eto Mr Gel. However, the possibility of systemic adverse events from the application of topical Aceclofenac cannot be excluded if the preparation is used on large areas of skin and over a prolonged period (see product information on systemic forms of Aceclofenac). This product should be used with caution in patients with a history of and/or active gastrointestinal ulceration or bleeding, or reduced heart, liver or renal function, since isolated cases of systemic adverse reactions consisting of renal affection, has been reported with topically administered antiphlogistics.

It is known that NSAIDs can interfere with platelet function. Although the likelihood of systemic side effects is very low, caution should be used in patients with intracranial hemorrhage and bleeding diathesis.

Direct sunlight, including solarium, should be avoided during treatment. If sensitivity skin reactions occur, discontinue use.

Eto Mr Gel should not be applied to skin wounds, infections or exfoliative dermatitis. It should not be allowed to come into contact with the eyes or mucous membranes and should not be ingested. Discontinue the treatment if a generalized skin rash develops after applying the product. Topical Aceclofenac can be used with non-occlusive bandages but should not be used with an airtight occlusive dressing.

4.5. Interaction with other medicinal products and other forms of interaction

Since systemic absorption of Aceclofenac from a topical application is very low such interactions are very unlikely.

4.6. Fertility, pregnancy and lactation

Pregnancy

The systemic concentration of Aceclofenac is lower after topical administration, compared to oral formulations. With reference to experience from treatment with NSAIDs with systemic uptake, the following is recommended:

- Inhibition of prostaglandin synthesis may adversely affect the pregnancy and/or the embryo/foetal development. Data from epidemiological studies suggest an increased risk of miscarriage and of cardiac malformation and gastroschisis after use of a prostaglandin synthesis inhibitor in early pregnancy. The absolute risk for cardiovascular malformation was increased from less than 1 %, up to approximately 1.5 %. The risk is believed to increase with the dose and duration of therapy.
- Animal studies have shown reproductive toxicity. In animals, administration of a prostaglandin synthesis inhibitor has been shown to result in increased pre- and postimplantation loss and embryo-foetal lethality. In addition, increased incidences of various malformations, including cardiovascular, have been reported in animals given a prostaglandin synthesis inhibitor during the organogenetic period. During the first and second trimester of pregnancy, Aceclofenac should not be given unless clearly necessary. If Aceclofenac is used by a woman attempting to conceive, or during the first and second trimester of pregnancy, the dose should be kept as low (< 30% of the body surface) and duration of treatment as short as possible (not longer than 3 weeks).

During the second and third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the fetus to:

- Functional renal injury in the fetus. From the 12th week: oligohydramnios (usually reversible after the end of treatment), or anamnios (particularly with prolonged exposure). After birth: kidney failure may persist (particularly with late or prolonged exposure).
- Pulmonary and cardiac toxicity in the foetus (pulmonary hypertension with premature closure of the ductus arteriosus). This risk exists from the beginning of the 6th month and increases if administration is close to full term. During the third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the mother and the neonate, to:
 - Possible prolongation of bleeding time, an anti-aggregating effect which may occur even at very low doses.
 - Inhibition of uterine contractions resulting in delayed or prolonged labour.
 - Increased risk of oedema formation in the mother.

Consequently, Eto Mr Gel is contraindicated during the third trimester of pregnancy

Lactation

Like other NSAIDs, Aceclofenac passes into breast milk in small amounts. However, at the recommended therapeutic doses of Eto Mr Gel no effects on the suckling child are anticipated. Because of a lack of controlled studies in lactating women, the product should only be used during lactation under advice from a healthcare professional.

Under this circumstance, Eto Mr Gel should not be applied on the breasts of nursing mothers, nor do elsewhere on large areas of skin or for a prolonged period of time

4.7. Effects on ability to drive and use machines

Cutaneous application of topical Aceclofenac has no influence on the ability to drive and use machines.

4.8. Undesirable effects

Most frequently reported reactions include skin reactions such as contact dermatitis, erythema and rash or application site reactions such as inflammation, irritation, pain and blistering. In studies there appeared to be no age specific increase or pattern of reactions.

Adverse reactions (Table 1) are ranked under heading of frequency, the most frequent first, using the following convention: very common: (>1/10); common (≥1/100, <1/10); uncommon (≥1/1,000, <1/100); rare (≥1/10,000, <1/1,000); very rare

(<1/10,000); Not known: cannot be estimated from the available data.

DRa SOC	Common 1/100 to <1/10	Uncommon to ≥1/1,000 to <1/100	Rare ≥1/10,000 to <1/1,000	Very rare <1/10,000
Blood and lymphatic system disorders			Anaemia	
Immune system disorders			Anaphylactic reaction (including shock) Hypersensitivity	
Metabolism and nutrition disorders				Hyperkalemia
Psychiatric disorders				Depression Abnormal dreams Insomnia
Nervous system disorders	Dizziness			Paraesthesia Tremor Somnolence Headache Dysgeusia (abnormal

				taste)
Eye disorders			Visual disturbance	
Ear and labyrinth disorders				Vertigo Tinnitus
Cardiac disorders			Cardiac failure	Palpitations
Vascular disorders			Hypertension	Flushing Hot flush vasculitis
Respiratory, thoracic and mediastinal disorders			Dyspnoea	Bronchospasm Stridor
Gastrointestinal disorders	Dyspepsia Abdominal pain Nausea Diarrhoea	Flatulence Gastritis Constipation Vomiting Mouth ulceration	Melaena Gastrointestinal haemorrhage Gastrointestinal ulceration	Stomatitis Intestinal perforation Exacerbation of Crohn's disease and colitis Ulcerative Haematemesis Pancreatitis
Hepatobiliary disorders	Hepatic enzyme increased			Hepatic injury (including hepatitis) Jaundice Blood alkaline phosphatase increased
Skin and subcutaneous tissue disorders		Pruritus Rash Dermatitis Urticaria	Angioedema	Purpura Severe mucocutaneous skin reaction (including Stevens Johnson

				Syndrome and Toxic Epidermal Necrolysis)
Renal and urinary disorders		Blood urea increased Blood creatinine increased		Renal failure Nephrotic syndrome
General disorders and administration site conditions				Oedema Fatigue Cramps in legs
Investigations				Weight increase

Temporary hair discoloration at the application site has been reported. This is usually reversed on stopping treatment. Patch testing of previously treated patients indicate a 2.18% probability of allergic contact dermatitis sensitization (type IV) to Aceclofenac with as yet unknown clinical relevance. Cross-reactivity to other NSAIDs is not likely. Serum testing more than 100 patients indicated no presence of type I anti-Aceclofenac antibodies.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorization of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Pharmacy and Poisons Board, Pharmacovigilance Electronic Reporting System (PvERS) <https://pv.pharmacyboardkenya.org>

4.9. Overdose

Due to the low systemic absorption of Eto Mr Gel, Overdosage is extremely unlikely as a result of topical use. However, the skin should be rinsed with water. There have been no clinical cases of ingestion of Eto Mr Gel inducing Overdosage. In the event of accidental ingestion resulting in significant systemic side effects, general therapeutic measures normally adopted to treat poisoning with non-steroidal anti-inflammatories should be used. Supporting and symptomatic treatment should be given for complications such as renal failure, convulsions, gastrointestinal irritation, and respiratory depression. Gastric decontamination and the use of activated charcoal should be considered, especially within a short time of ingestion. Specific therapies such as forced diuresis and dialysis will probably not be therapeutic in eliminating

NSAIDs due to their high rate of protein binding.

5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Mechanisms of action: This drug has several mechanism of action.

1. It inhibits cyclooxygenase (COX) activity and to suppress the PGE₂ production by inflammatory cells, by inhibiting IL-Beta & TNF in the inflammatory cells (Intracellular Action).
2. It blocks degeneration and stimulates synthesis of extra cellular matrix of cartilages by inhibiting the action of different cytokines.
3. Drug and its metabolites inhibit IL-6 production by human chondrocytes. This leads to inhibition of increase of inflammatory cells in synovial tissue, inhibition of IL-1 amplification, inhibition of increased MMP synthesis and thus ensuring proteoglycan production.
4. It inhibits IL-1 and TNF production by human chondrocytes, inflammatory cells and synovial cells and therefore blocks suppression of GAG and collagen synthesis and stimulates growth factors mediated synthesis of GAG and collagen.
5. 4'-hydroxyaceclofenac a metabolite of aceclofenac inhibits pro MMP1 and pro MMP3 produced by synovial cells (Rheumatoid Synovial Cells) in serum and in synovial fluid and thus inhibits progressive joint destruction by MMPs.
6. Aceclofenac inhibits Neutrophil Adhesion & Accumulation at the inflammatory site in the early phase and thus blocks the pro-inflammatory actions of Neutrophils.
7. Aceclofenac is also an NSAID with greater COX-2 specificity

5.2. Pharmacokinetic properties

Absorption:

Mean absorption through the skin varies between <1-12% with large inter-individual variability. Absorption is dependent on the amount of the topical dose applied and the site of application.

Distribution:

Widely distributed in the body as protein-bound form. It is highly protein-bound (>99.7%). Aceclofenac penetrates into the synovial fluid, where the concentrations reach approximately 60% of those in plasma.

Biotransformation:

Biotransformation of Aceclofenac involves partly conjugation of the intact molecule, but mainly single and multiple hydroxylations resulting in several phenolic metabolites, most of which are converted to glucuronide conjugates. Two of these phenolic metabolites are biologically active, however, to a much lesser extent than Aceclofenac. Metabolism of Aceclofenac following percutaneous and oral administration is similar. Metabolized into metabolites in the liver. The main metabolite is 4-hydroxyaceclofenac

Elimination:

It is excreted through urine mainly as conjugated hydroxy metabolites.

5.3. Preclinical safety data

Published animal studies have shown that when given orally, the principal adverse effect is on the gastrointestinal tract. Aceclofenac inhibited ovulation in the rabbit and impaired implantation, as well as early embryonic development in the rat. The embryo/fetotoxic potential of Aceclofenac was evaluated in three animal species (rat, mouse and rabbit). Fetal death and growth retardation occurred at maternally toxic doses, however, on the basis of the available data, Aceclofenac is not considered to be teratogenic. The gestation period and the duration of parturition were extended by Aceclofenac. Doses lower than maternal toxic ones did not affect postnatal development. Results from extensive genotoxicity and carcinogenicity testing suggest that it is unlikely that aceclofenac would pose a significant carcinogenic hazard to humans.

6. PHARMACEUTICAL PARTICULARS

6.1. List of excipients

Purified Water
Carbomer 940
Sodium Hydroxide
Glycerin
Polyethylene glycol 400
Tween 80
Camphor 5% w/w
Benzyl Alcohol 1%w/w

6.2. Incompatibilities

Not applicable.

6.3. Shelf life

36 Months

6.4. Special precautions for storage

Store in a cool place, Protect

from light. Do not freeze.
Replace the cap tightly after use.

6.5. Nature and contents of container

30 gm lami tube packed in one carton pack with a packing leaflet

6.6. Special precautions for disposal and other handling

No special requirements.

7. Marketing authorization holder

Eastleigh Pharmaceuticals Co. Ltd.

P.O Box 167-00610,

Nairobi,

Kenya.

8. Marketing authorization number(s)

H2024/CTD10308/23357

9. Date of First Authorization

16th April 2024

10. Date of revision of text

November 2024