

Kumar Organic Products Limited

Ingredients for us

KOPEXIL AQUA

**(2,4-Diamino pyrimidine-3-oxide
+ Multifunctional Compound)**

- ☑ Strengthens hair from root to tip
- ☑ Promotes hair thickness
- ☑ Ceases hair loss
- ☑ Accelerates hair growth
- ☑ Reinforces hair anchorin



New Water Soluble Compositions for Treating Hair Loss and Promoting Hair Growth

Kumar Organic Products (KOP) Research Centre Pvt Ltd, An Innovative Technology Company, promoted by Kumar Organic Products Limited, has come out with novel water soluble salts prepared by hitherto unknown combinations of hair growth stimulants **Kopexil (2,4-Diamino pyrimidine-3-oxide)** and a multifunctional compound which can, not only prevent hair loss but can stimulate new hair growth also.

Product Specification

TESTS	SPECIFICATION
pH (neat Solution)	3.0 – 4.0
Relative density	0.9-1.1 g/ml
Diaminopyrimidine Oxide content (By HPLC)	4.0 – 5.0 % w/w
Oxothiazolidine carboxylic acid content (By Titration)	5.0 – 6.0 %w/w
Appearance	Clear, colourless liquid

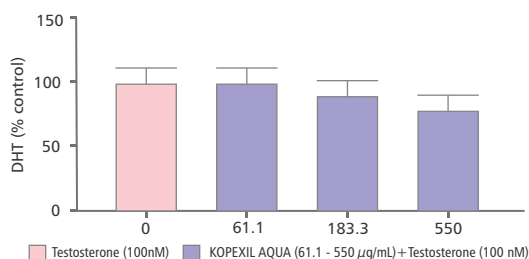
Applications

- Hair Serum
- Hair Conditioners
- Hair Shampoo
- Hair Lotion
- Hair Cream
- Hair Spray
- Eye Liner & Mascara

Dosage

Standard dosage range upto 1.5%

Effect of KOPEXIL AQUA on DHT Release in DU-145 cells at 6h of treatment



EFFICACY STUDY

KOPEXIL AQUA exhibited significant reduction on 5- α reductase activity in DU-145 cells at the highest tested concentration. It blocks the formation of dihydro testosterone (DHT) which is the main cause for miniaturization of hair follicles, by preventing the reaction of 5-Alpha reductase on the male hormone testosterone.

CLINICAL STUDY

Open label, phase II, clinical study was carried out on 60 subjects (male) to evaluate the safety and efficacy of these water soluble compositions along with 5% solution of Minoxidil (market sample) and were found to be therapeutically more superior to Minoxidil.

Kopexil AQUA showed increased mRNA value (12.6%) as compared to Minoxidil (5%), which is related to hair growth.

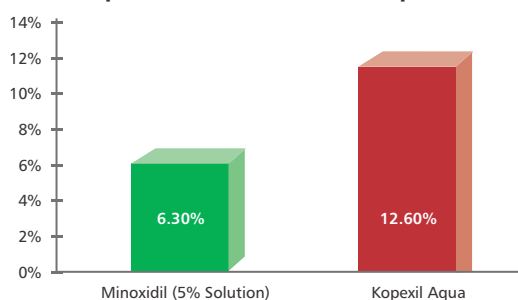
SAFETY EVALUATION

Safety analysis was carried out through the study and there were no significant findings found against for Kopexil AQUA. No adverse events were reported. All the post study laboratory values were normal.

FORMULATIONS

The water soluble salts of these actives are for topical use which may be administered in Gel, Cream, Lotion, Shampoo, Conditioner, Mascara, Eye Liner, solutions or sprays and can contain water up to 95% of the composition.

% improvement in mRNA expression



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