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Product Information

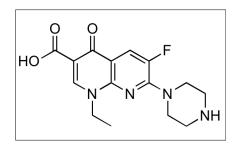
Product ID E5358

CAS No. 74011-58-8

Chemical Name 1-Ethyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-1,8-naphthyridine -3-carboxylic acid

Synonym Abenox, Bactidan, Comprecin, Flumark, Penetrex

Formula C₁₅H₁₇FN₄O₃ Formula Wt. 320.32 Melting Point 220-224°C Purity ≥98% Solubility Insoluble in water.



Bulk quanitites available upon request

Product ID	Size
E5358	500 mg
E5358	1 g
E5358	5 g

Store Temp Ambient

Ship Temp Ambient

Description Enoxacin is a fluoroquinolone antibiotic that is clinically used to treat urinary tract infections and gonorrhea; like other fluoroquinolones, enoxacin inhibits DNA gyrase and topoisomerase IV. Enoxacin displays antibacterial and anti-resorptive activities. In vivo, this compound decreases RANKL-induced JNK signaling, inhibiting osteoclast formation. Additionally, enoxacin inhibits vacuolar H+ ATPase activity, preventing bone resorption.

References Liu X, Qu X, Wu C, et al. The effect of enoxacin on osteoclastogenesis and reduction of titanium particle-induced osteolysis via suppression of JNK signaling pathway. Biomaterials. 2014 Jul;35(22):5721-30. PMID: 24767789.

> Toro EJ, Zuo J, Ostrov DA, et al. Enoxacin directly inhibits osteoclastogenesis without inducing apoptosis. J Biol Chem. 2012 May 18;287(21):17894-904. PMID: 22474295.

Zuma AA, Cavalcanti DP, Maia MC, et al. Effect of topoisomerase inhibitors and DNA-binding drugs on the cell proliferation and ultrastructure of Trypanosoma cruzi. Int J Antimicrob Agents. 2011 May;37(5):449-56. PMID: 21292448.

Koseki N, Deguchi J, Yamashita A, et al. Establishment fo a novel experimental protocol for drug-induced seizure liability screening based on a locomotor activity assay in zebrafish. J Toxicol Sci. 2014 Aug; 39(4):579-600. PMID: 25056783.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.