
Product Data Sheet

Product Name: Enoxacin (Penetrex)

Cat. No.: GC11452

Chemical Properties

Cas. No. 74011-58-8

Chemical Name 1-ethyl-6-fluoro-4-oxo-7-piperazin-1-yl-1,8-naphthyridine-3-carboxylic acid

SMILES CCN1C=C(C(=O)C2=CC(=C(N=C21)N3CCNCC3)F)C(=O)OFormula $C_{15}H_{17}FN_4O_3$ M.Wt 320.32Solubility $\geq 18.4\text{mg/mL}$ in DMSO Storage 4°C , protect from lightGeneral tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Enoxacin is a broad-spectrum 6-fluoronaphthyridinone antibacterial agent. Target: antibacterial. Enoxacin is a new quinolone carboxylic acid compound. Its activity against 740 bacterial isolates was determined. It inhibited 90% Escherichia coli, Klebsiella sp., Aeromonas sp., Enterobacter spp., Serratia spp., Proteus mirabilis, and Morganella morganii at less than or equal to 0.8 micrograms/ml [1]. Daily plasma theophylline concentrations were measured in 14 patients. The mean +/- s.d. theophylline concentrations increased from 8.5 +/- 2.8 micrograms ml⁻¹ prior to enoxacin to a maximum of 21.7 +/- 7.8 micrograms ml⁻¹ during coadministration [2].

References:

[1]. Chin, N.-X. and H.C. Neu, In vitro activity of enoxacin, a quinolone carboxylic acid, compared with those of norfloxacin, new beta-lactams, aminoglycosides, and trimethoprim. Antimicrobial agents and chemotherapy, 1983. 24(5): p. 754-763.

[2]. Wijnands, W., T. Vree, and C. Herwaarden, Enoxacin decreases the clearance of

Caution: Product has not been fully validated for medical applications. For research use only.

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theophylline in man. British journal of clinical pharmacology, 1985. 20(6): p. 583-588.

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