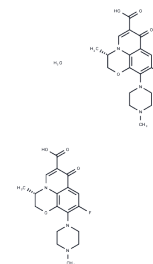


Levofloxacin hydrate

Chemical Properties

CAS No. :	138199-71-0
Formula:	C ₁₈ H ₂₀ FN ₃ O ₄ ·1/2H ₂ O
Molecular Weight:	370.38
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Levofloxacin hydrate (Cravit hydrate) is a broad-spectrum, third-generation fluoroquinolone antibiotic and optically active L-isomer of ofloxacin with antibacterial activity. Levofloxacin diffuses through the bacterial cell wall and acts by inhibiting DNA gyrase (bacterial topoisomerase II), an enzyme required for DNA replication, RNA transcription, and repair of bacterial DNA. Inhibition of DNA gyrase activity leads to blockage of bacterial cell growth.
Targets(IC50)	Antibacterial, Antibiotic, DNA gyrase, DNA/RNA Synthesis, Topoisomerase, Virus Protease
Cell Research	Cell suspension samples (50 mL) (2-5×10 ⁴ mast cells in each tube for dispersed skin cells or 1×10 ⁵ mast cells in each tube for rat peritoneal cells) in duplicate are equilibrated at 37°C for 10 min, and then added to polypropylene tubes containing 450 mL test compounds dissolved in Tyrode solution. Histamine release reaction is allowed to proceed for a further 30 min. at the end of which time the reaction is terminated by adding 2 mL ice-cold Tyrode solution and the mixture is centrifuged (450 g for 5 min at 4°C). For determination of total histamine content, mast cells are disrupted in boiling water for 10 min. Histamine concentrations in the resulting supernatant and disrupted cells are determined by the enzyme immunoassay described above. (Only for

Solubility Information

Solubility	DMSO: 50 mg/mL (135 mM), Sonication is recommended. H ₂ O: 5 mg/mL (13.5 mM), Sonication is recommended. Ethanol: 10 mg/mL (27 mM), Sonication is recommended. Methanol: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6999 mL	13.4996 mL	26.9993 mL
5 mM	0.540 mL	2.6999 mL	5.3999 mL
10 mM	0.270 mL	1.350 mL	2.6999 mL
50 mM	0.054 mL	0.270 mL	0.540 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Schmitz FJ, et al. J Antimicrob ChemOther. 1998 Apr;41(4):481-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481