Product Data Sheet

Product Name: Garenoxacin (BMS284756)
Cat. No.: GC33972

Chemical Properties

Cas. No.	194804-75-6		
SMILES	O=C(C1=CN(C2CC2)C3=C(C=CC(C4=CC5=C([C@@H](C)NC5)C=C4)=C3OC(F)F)C1=O)O		
Formula	$C_{23}H_{20}F_2N_2O_4$	M.Wt	426.41
Solubility	DMSO: 1 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Garenoxacin (BMS284756)		

Background

Garenoxacin is a quinolone antibiotic.[1] It is active against a variety of Gram-positive and Gram-negative bacteria (MIC_{90}s = 0.025-6.25 and 0.0125-100 ?g/ml, respectively). Garenoxacin inhibits *E. coli* DNA gyrase supercoiling and *S. aureus* topoisomerase IV decatenation activities (IC_{50}s = 0.17 and 2.19 mg/L, respectively).[2] It is selective for *S. aureus* topoisomerase IV over human topoisomerase II (IC_{50} = 509.7 ?g/L). Garenoxacin is efficacious against systemic quinolone-resistant *S. aureus* infection and pneumonia induced by the penicillin-resistant *S. pneumoniae* clinical isolate D-979 in mice (ED_{50}s = 0.0189 and 0.0278 mg/animal, respectively).[1]

1.Takahata, M., Mitsuyama, J., Yamashiro, Y., et al.In vitro and in vivo antimicrobial activities of T-3811ME, a novel des-F(6)-quinoloneAntimicrob. Agents Chemother.43(5)1077-1084(1999) 2.Lawrence, L.E., Wu, P., Fan, L., et al.The inhibition and selectivity of bacterial topoisomerases by BMS-284756 and its analoguesJ. Antimicrob. Chemother.48(2)195-201(2001)

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA