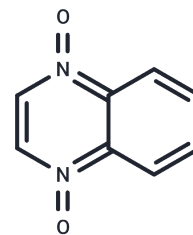


Quindoxin

Chemical Properties

CAS No. :	2423-66-7
Formula:	C ₈ H ₆ N ₂ O ₂
Molecular Weight:	162.15
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	Quindoxin is a potent antibacterial agent that has been rigorously evaluated for genetic toxicity using the Salmonella microsomal assay system, where experimental testing demonstrated that this compound induces both base pair substitution mutations and frameshift mutations in Salmonella strains independently of the presence of a rat liver microsomal fraction, with mutagenic activity shown to be mechanistically dependent on the presence of its N-oxide functional group, as fully reduced quinoxaline lacked mutagenicity while partially reduced quinoxaline-N-oxide displayed diminished activity, and recA- and uvrB-deficient Salmonella strains exhibited increased susceptibility compared with wild-type strains.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (61.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1671 mL	30.8356 mL	61.6713 mL
5 mM	1.2334 mL	6.1671 mL	12.3343 mL
10 mM	0.6167 mL	3.0836 mL	6.1671 mL
50 mM	0.1233 mL	0.6167 mL	1.2334 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

Suter W, Rosselet A, Knüsel F. Mode of action of quindoxin and substituted quinoxaline-di-N-oxides on Escherichia coli. Antimicrob Agents Chemother. 1978 May;13(5):770-83.

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