

SF2312

Chemical Properties

CAS No. : 107729-45-3

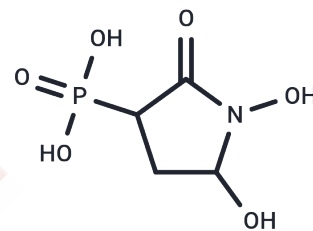
Formula: C₄H₈NO₆P

Molecular Weight: 197.08

Store at low temperature, Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	SF2312 is a natural phosphonate antibiotic produced by Actinobacillus microsporus and is a potent inhibitor of the glycolytic enzyme enolase. SF2312 has antimicrobial activity and inhibits bacterial growth against both Gram-negative and Gram-negative bacteria. SF2312 inhibits human recombinant ENO1 and ENO2.
Targets(IC50)	Glucokinase, Antibacterial, Antibiotic

Solubility Information

Solubility	H ₂ O: 12.5 mg/mL (63.43 mM), Sonication is recommended. DMSO: 12.5 mg/mL (63.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0741 mL	25.3704 mL	50.7408 mL
5 mM	1.0148 mL	5.0741 mL	10.1482 mL
10 mM	0.5074 mL	2.537 mL	5.0741 mL
50 mM	0.1015 mL	0.5074 mL	1.0148 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

Paul G Leonard, et al. SF2312 is a natural phosphonate inhibitor of enolase. Nat Chem Biol. 2016 Dec;12(12):1053-1058.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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