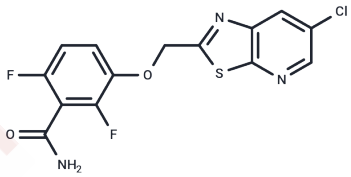
Data Sheet (Cat.No.T61274)

PC190723

Chemical Properties



CAS No. : 951120-33-5

Formula: C14H8ClF2N3O2S

Molecular Weight: 355.75

Storage: Store at low temperature
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	PC190723 is a bacterial cytosolic protein FtsZ inhibitor (IC50: 55 ng/ml) with antimicrobial activity that inhibits Staphylococcus spp. PC190723 enhances the high-affinity conformational stability of FtsZ proteins, stabilizing the polymer to prevent disassembly by preferentially binding to each assembled protein.
Targets(IC50)	Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 160 mg/mL (449.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (14.05 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.811 mL	14.0548 mL	28.1096 mL
5 mM	0.5622 mL	2.811 mL	5.6219 mL
10 mM	0.2811 mL	1.4055 mL	2.811 mL
50 mM	0.0562 mL	0.2811 mL	0.5622 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

Buroni S, et al. The cell division protein FtsZ as a cellular target to hit cystic fibrosis pathogens. Eur J Med Chem. 2020 Mar 15;190:112132.
Tripathy S,et al. FtsZ inhibitors as a new genera of antibacterial agents. Bioorg Chem. 2019 Oct;91:103169.