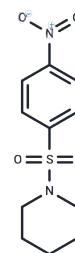


VP-4604

Chemical Properties

CAS No. : 64268-93-5
 Formula: C₁₁H₁₄N₂O₄S
 Molecular Weight: 270.3
 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	VP-4604 is a potent anti-methicillin-resistant Staphylococcus aureus (MRSA) compound that exhibited significant microbial growth inhibition against S. aureus with an MIC of 4-8 µg/mL and a growth inhibition rate of over 95%.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	VP-4604 (2.5 mM) showed low toxicity towards mammalian cells and was tolerated by mammalian cells (HaCaT, lymphocytes) with inhibition growth (%) of 44.1% and >50%, respectively.[1] VP-4604 (2.5 mM, 18 h) inhibits drug-resistant S. aureus and P. aeruginosa with growth inhibition (%) GI >95% [1]. VP-4604 shows low cytotoxicity with a CC 50 value >118.4 mM towards HEK-293 (human embryonic kidney) ATCC CRL-1573 and an HC 10 vaule >118.4 µM towards RBC (human red blood cells).[1]

Solubility Information

Solubility	DMSO: 6 mg/mL (22.2 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	3.6996 mL	18.498 mL	36.9959 mL
5 mM	0.7399 mL	3.6996 mL	7.3992 mL
10 mM	0.370 mL	1.8498 mL	3.6996 mL
50 mM	0.074 mL	0.370 mL	0.7399 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

Palchykov V, et al. Antimicrobial action of arylsulfonamides bearing (aza) norbornane and related motifs: evaluation of new promising anti-MRSA agents. Medicinal Chemistry Research, 2022: 1-9.

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