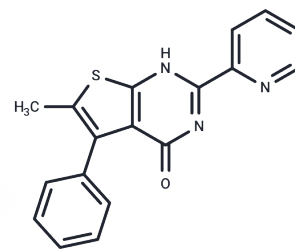


Antimicrobial agent-21

Chemical Properties

CAS No. :	724746-07-0
Formula:	C ₁₈ H ₁₃ N ₃ O ₂ S
Molecular Weight:	319.38
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	Antimicrobial agent-21 is a potent mitogen activated protein kinase inhibitor with antibacterial, anti-inflammatory and antitumor activity for the treatment of cataracts, ulcerative colitis, meningitis and Kawasaki's disease and Parkinson's disease.
Targets(IC50)	MAPK,Antibacterial

Solubility Information

Solubility	DMSO: 10 mg/mL (31.31 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	3.1311 mL	15.6553 mL	31.3107 mL
5 mM	0.6262 mL	3.1311 mL	6.2621 mL
10 mM	0.3131 mL	1.5655 mL	3.1311 mL
50 mM	0.0626 mL	0.3131 mL	0.6262 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

Haswani, Nitin & Bari, Sanjaykumar. (2011). Synthesis and antimicrobial activity of novel 2-(pyridin-2-yl)thieno [2,3-d]pyrimidin-4 (3H)-ones. Turkish Journal of Chemistry. 35.

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