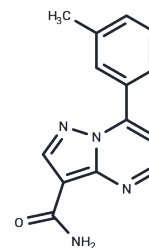


CU-CPT-8m

Chemical Properties

CAS No. :	125079-83-6
Formula:	C ₁₄ H ₁₂ N ₄ O
Molecular Weight:	252.27
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	CU-CPT-8m (TLR8-specific antagonist) is a toll-like receptor 8 (TLR8) antagonist (IC ₅₀ : 67 nM)
Targets(IC ₅₀)	TLR
In vivo	CU-CPT8m decreases TNF- α and IL-8 levels in synovial cells derived from patients with osteoarthritis and TNF- α levels in PBMCs derived from patients with rheumatoid arthritis.

Solubility Information

Solubility	DMSO: 30 mg/mL (118.92 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	3.964 mL	19.820 mL	39.6401 mL
5 mM	0.7928 mL	3.964 mL	7.928 mL
10 mM	0.3964 mL	1.982 mL	3.964 mL
50 mM	0.0793 mL	0.3964 mL	0.7928 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

Zhang S , Hu Z , Tanji H , et al. Small-molecule inhibition of TLR8 through stabilization of its resting state[J]. Nature Chemical Biology, 2017, 14(1):58-64.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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