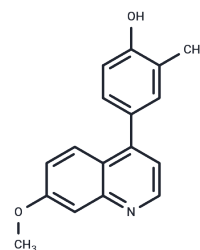


CU-CPT-9a

Chemical Properties

CAS No. :	2165340-32-7
Formula:	C17H15NO2
Molecular Weight:	265.31
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-9a is a potent TLR8 inhibitor (IC ₅₀ : 0.5 nM), that suppresses TLR8-mediated proinflammatory signaling in various cell lines and human primary cells-
Targets(IC ₅₀)	TLR

Solubility Information

Solubility	DMSO: 150 mg/mL (565.38 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: 4 mg/mL (15.08 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7692 mL	18.8459 mL	37.6918 mL
5 mM	0.7538 mL	3.7692 mL	7.5384 mL
10 mM	0.3769 mL	1.8846 mL	3.7692 mL
50 mM	0.0754 mL	0.3769 mL	0.7538 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.

Yang W , Sun X , Liu S , et al. TLR8 agonist Motolimod-induced inflammatory death for treatment of acute myeloid leukemia. Biomedicine & Pharmacotherapy. 2023, 163: 114759.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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