

CU-CPT17e

Chemical Properties

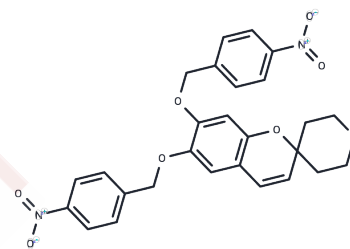
CAS No. : 2109805-75-4

Formula: C₂₇H₂₄N₂O₈

Molecular Weight: 504.49

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-CPT17e is a potent agonist of TLR(TLR3, TLR8, and TLR9).
Targets(IC50)	TLR
In vitro	The first small molecule 17e (CU-CPT17e) capable of simultaneously activating TLRs 3, 8, and 9. Biochemical studies demonstrated that 17e could induce a strong immune response via the production of various cytokines in human monocytic THP-1 cells. Furthermore, 17e inhibited the proliferation of HeLa cancer cells by triggering apoptosis and arresting the cell cycle at the S phase. These results showcase potential therapeutic applications of 17e in both vaccine adjuvants and anticancer therapies based on multi-TLR activation.

Solubility Information

Solubility	DMSO: 2 mg/mL (3.96 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	1.9822 mL	9.911 mL	19.822 mL
5 mM	0.3964 mL	1.9822 mL	3.9644 mL
10 mM	0.1982 mL	0.9911 mL	1.9822 mL
50 mM	0.0396 mL	0.1982 mL	0.3964 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 L, et al. Discovery of Small Molecules as Multi-Toll-like Receptor Agonists with Proinflammatory and Anticancer Activities. J Med Chem. 2017 Jun 22;60(12):5029-5044.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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