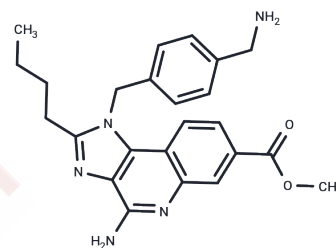


TLR7/8 agonist 6

Chemical Properties

CAS No. :	2115702-83-3
Formula:	C ₂₄ H ₂₇ N ₅ O ₂
Molecular Weight:	417.5
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	TLR7/8 agonist 6 is a potent dual TLR7 and TLR8 agonist, activating the innate immune system and inducing cytokine production.
Targets(IC50)	TLR
In vitro	In cellular assays, TLR7/8 agonist 6 effectively induces the secretion of high levels of IFN-alpha and other pro-inflammatory cytokines in human PBMCs and reporter cell lines [1].
In vivo	Administration of TLR7/8 agonist 6 in animal models significantly enhances antigen-specific T-cell and B-cell immune responses when utilized as a vaccine adjuvant [1].

Solubility Information

Solubility	DMSO: 16 mg/mL (38.32 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	2.3952 mL	11.976 mL	23.9521 mL
5 mM	0.479 mL	2.3952 mL	4.7904 mL
10 mM	0.2395 mL	1.1976 mL	2.3952 mL
50 mM	0.0479 mL	0.2395 mL	0.479 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

Yang M, et al. Toll-like receptor 7 and 8 imidazoquinoline-based agonist/antagonist pairs. Bioorg Med Chem Lett. 2022;59:128548.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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