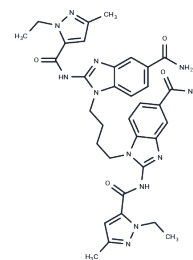


STING agonist-4

Chemical Properties

CAS No. : 2138300-40-8
 Formula: C₃₄H₃₈N₁₂O₄
 Molecular Weight: 678.74
 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	STING agonist-4 is an agonist of stimulator of Interferon Genes (STING) receptor (IC ₅₀ : 20 nM).
Targets(IC ₅₀)	STING
In vitro	STING agonist-4 (0.3-30 μM; 2 hours) causes phosphorylation of IRF3 and STING that is inhibited by the TBK1 inhibitor BX795 and induces dose-dependent secretion of IFN-β with an EC ₅₀ of 3.1 μM. STING agonist-4 (0.001 nM-1 μM) inhibits the binding of full-length STING to the solid support (K _d : 1.6 nM). STING agonist-4 (0-100 μM) is 18-fold more potent than cGAMP (an endogenous STING ligand)(EC ₅₀ of 53.9 μM). STING agonist-4 (3 μM; 4 hours) promotes the production of interferon γ-induced protein 10 (IP-10), IL-6, and TNF-α by a mechanism that is dependent on STING-mediated activation of TBK1.

Solubility Information

Solubility	DMSO: 10 mg/mL (14.73 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4733 mL	7.3666 mL	14.7332 mL
5 mM	0.2947 mL	1.4733 mL	2.9466 mL
10 mM	0.1473 mL	0.7367 mL	1.4733 mL
50 mM	0.0295 mL	0.1473 mL	0.2947 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

Ramanjulu JM et al. Design of amidobenzimidazole STING receptor agonists with systemic activity. Nature. 2018 Dec;564(7736):439-443.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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