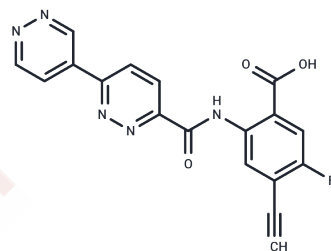


STING Agonist 12L

Chemical Properties

CAS No. :	2913152-30-2
Formula:	C ₁₈ H ₁₀ FN ₅ O ₃
Molecular Weight:	363.30
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	STING agonist 12L is a stimulator of interferon genes (STING) agonist that exhibits binding affinity for both wild-type STING and its variants R232, AQ, and Q with half-maximal inhibitory concentrations (IC ₅₀ s) of 1.15 μM for wild-type, 1.06 μM for R232, 0.61 μM for AQ, and 1.12 μM for Q. It effectively induces reporter gene expression in THP-1 and RAW 264.7 cells, with half-maximal effective concentrations (EC ₅₀ s) of 0.38 μM and 12.94 μM, respectively. At a concentration of 5 μM, STING agonist 12L escalates the expression of IFNB1, CXCL10, and IL6 mRNA in THP-1 cells. When administered in vivo at a dose of 10 mg/kg, it enhances plasma IFN-β levels and considerably reduces tumor volume and the number of lung metastases in a B16/F10 murine melanoma model.
Targets(IC ₅₀)	STING

Solubility Information

Solubility	DMF: 10 mg/mL (27.53 mM),Sonication is recommended. Ethanol: 5 mg/mL (13.76 mM),Sonication is recommended. PBS pH 7.2: 2 mg/mL (5.51 mM),Sonication is recommended. DMSO: 10 mg/mL (27.53 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	2.7525 mL	13.7627 mL	27.5255 mL
5 mM	0.5505 mL	2.7525 mL	5.5051 mL
10 mM	0.2753 mL	1.3763 mL	2.7525 mL
50 mM	0.0551 mL	0.2753 mL	0.5505 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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