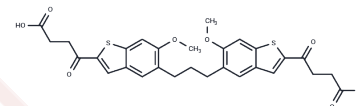


MSA-2 dimer

Chemical Properties

CAS No. :	2377881-92-8
Formula:	C ₂₉ H ₂₈ O ₈ S ₂
Molecular Weight:	568.66
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	MSA-2 dimer, a selective and orally active non-nucleotide STING agonist with a dissociation constant (K _d) of 145 μM, demonstrates prolonged antitumor and immunogenic activity. It non-covalently binds to STING as a dimer, showing greater permeability compared to cyclic dinucleotide[1].
Targets(IC50)	Others,STING
In vivo	MSA-2 dimer exhibits antitumor activity, demonstrating tumor growth inhibition and prolonged overall survival at 60 mg/kg (p.o., 50 days), complete tumor regression at 40 mg/kg (s.c., 25 days), and increased proinflammatory cytokine (IFN-β) levels at 60 mg/kg (p.o., 4 hours) in tumors. Higher concentrations are observed in tumors than in plasma or other non-tumor tissues at 60 mg/kg (s.c., 4 hours). In THP-1 cells, MSA-2 dimer induces the phosphorylation of TBK1 and IR, and in macrophages, it induces IFN-β at 10 μM and 33 μM. Furthermore, MSA-2 dimer exhibits dose-dependent antitumor activity via IT, SC, or PO administration routes[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7585 mL	8.7926 mL	17.5852 mL
5 mM	0.3517 mL	1.7585 mL	3.517 mL
10 mM	0.1759 mL	0.8793 mL	1.7585 mL
50 mM	0.0352 mL	0.1759 mL	0.3517 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

Pan BS, et al. An orally available non-nucleotide STING agonist with antitumor activity. Science. 2020;369(6506): eaba6098.

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