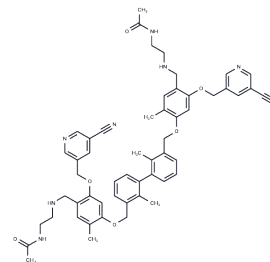


LH1307

Chemical Properties

CAS No. : 2375720-38-8
 Formula: C54H58N8O6
 Molecular Weight: 915.108
 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	LH1307 is an inhibitor of the interaction between programmed cell death 1 (PD-1) and its ligand PD-L1 that has an IC50 value of 3 nM in a homologous time-resolved fluorescence (HTRF) assay. ¹ It increases the activation of Jurkat cells expressing PD-1 in co-culture with U2OS or CHO cells expressing PD-L1 (EC50s = 79 and 763 nM, respectively, in reporter assays).
Targets(IC50)	Others,PD-1/PD-L1

Solubility Information

Solubility	Ethanol: 10 mg/mL (10.93 mM),Sonication is recommended. DMF: 25 mg/mL (27.32 mM),Sonication is recommended. DMSO: 25 mg/mL (27.32 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:2): 0.3 mg/mL (0.33 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	1.0928 mL	5.4638 mL	10.9276 mL
5 mM	0.2186 mL	1.0928 mL	2.1855 mL
10 mM	0.1093 mL	0.5464 mL	1.0928 mL
50 mM	0.0219 mL	0.1093 mL	0.2186 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

Basu, S., Yang, J., Xu, B., et al. Design, synthesis, evaluation, and structural studies of C₂-symmetric small molecule inhibitors of programmed cell death-1/programmed death-ligand 1 protein-protein interaction. *J. Med. Chem.* 62(15), 7250-7263 (2019).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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