

NAcM-OPT HCl(2089293-61-6 free base)

Chemical Properties

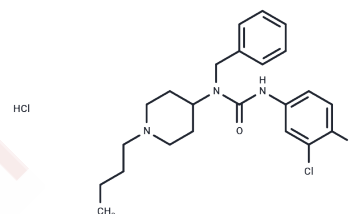
CAS No. : 2416146-10-4

Formula: C₂₃H₃₀Cl₃N₃O

Molecular Weight: 470.86

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	NAcM-OPT HCl is an orally bioavailable cullin neddylation 1 (DCN1) inhibitor that targets N-Acetyl-UBE2M (E2 conjugating enzyme, UBC12) interaction with DCN1 with IC ₅₀ of 79 nM.
Targets(IC ₅₀)	Autophagy, NEDD8
In vivo	NAcM-OPT is orally bioavailable, well tolerated in mice, and currently used to study the effects of acute pharmacologic inhibition of the DCN1-UBE2M interaction on the NEDD8/CUL pathway

Solubility Information

Solubility	DMSO: 60 mg/mL (127.43 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	2.1238 mL	10.6189 mL	21.2377 mL
5 mM	0.4248 mL	2.1238 mL	4.2475 mL
10 mM	0.2124 mL	1.0619 mL	2.1238 mL
50 mM	0.0425 mL	0.2124 mL	0.4248 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

Hammill JT, et al. Discovery of an Orally Bioavailable Inhibitor of Defective in Cullin Neddylation 1 (DCN1)-Mediated Cullin Neddylation. J Med Chem. 2018 Apr 12;61(7):2694-2706.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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