NAcM-OPT

Cat. No.: HY-111505

CAS No.: 2089293-61-6

Molecular Formula: $C_{23}H_{29}Cl_2N_3O$

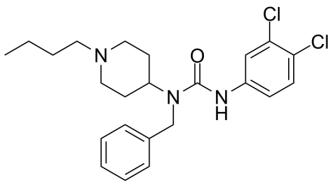
Molecular Weight: 434.4

Target: E1/E2/E3 Enzyme; NEDD8-activating Enzyme

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (287.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3020 mL	11.5101 mL	23.0203 mL
	5 mM	0.4604 mL	2.3020 mL	4.6041 mL
	10 mM	0.2302 mL	1.1510 mL	2.3020 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NAcM-OPT is an orally bioavailable cullin neddylation 1 (DCN1) inhibitor, which potently inhibits the DCN1-UBE2M interaction[1].

IC_{50} & Target

DCN1[1]

In Vitro

NAcM-OPT (Compound 67) 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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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