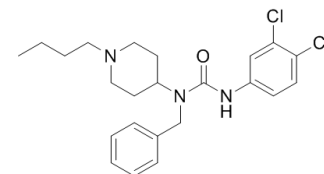


NACM-OPT

Cat. No.:	HY-111505
CAS No.:	2089293-61-6
Molecular Formula:	C ₂₃ H ₂₉ Cl ₂ N ₃ O
Molecular Weight:	434.4
Target:	NEDD8-activating Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the COA.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (287.75 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- Add each solvent one by one: **10% DMSO >> 90% corn oil**
 Solubility: ≥ 2.08 mg/mL (4.79 mM); Clear solution
- 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

BIOLOGICAL ACTIVITY

Description

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

IC₅₀ & 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].

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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