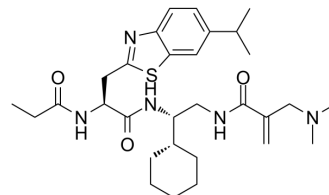


DI-1859

Cat. No.:	HY-145733		
CAS No.:	2247061-09-0		
Molecular Formula:	C ₃₀ H ₄₅ N ₅ O ₃ S		
Molecular Weight:	555.78		
Target:	E1/E2/E3 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 : 100 mg/mL (179.93 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7993 mL	8.9964 mL	17.9927 mL
5 mM	0.3599 mL	1.7993 mL	3.5985 mL
10 mM	0.1799 mL	0.8996 mL	1.7993 mL

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

BIOLOGICAL ACTIVITY

Description

DI-1859 is a potent, selective and covalent inhibitor of DCN1. DI-1859 inhibits neddylation of cullin 3 in cells at low nanomolar concentrations. DI-1859 induces a robust increase of NRF2 protein, a CRL3 substrate, in mouse liver and effectively protects mice from acetaminophen-induced liver damage^[1].

REFERENCES

[1]. Zhou H, et al. Selective inhibition of cullin 3 neddylation through covalent targeting DCN1 protects mice from acetaminophen-induced liver toxicity. Nat Commun. 2021;12(1):2621.

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

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