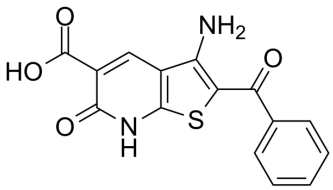
LDN-91946

Cat. No.:	HY-12989
CAS No.:	439946-22-2
Molecular Formula:	$C_{15}H_{10}N_2O_4S$
Molecular Weight:	314.32
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (265.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1815 mL	15.9074 mL	31.8147 mL
	5 mM	0.6363 mL	3.1815 mL	6.3629 mL
	10 mM	0.3181 mL	1.5907 mL	3.1815 mL

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

BIOLOGICAL ACTIVITY

Description

LDN-91946 is a potent, selective and uncompetitive ubiquitin C-terminal hydrolase-L1 (UCH-L1) inhibitor with a $K_{i\ app}$ of 2.8 μM[1].

IC_{50} & Target

Ki app: 2.8 μM (UCH-L1)[1]

In Vitro

LDN-91946 is inactive against UCH-L3 at 20 μM. LDN-91946 demonstrates no activity against TGase 2, Papain, and Caspase-3 at 40 μM[1].

There is no cytotoxicity when serum-starved Neuro 2A (N2A) cells are treated with LDN-91946 at concentrations as high as 0.1 mM[1].

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

REFERENCES

[1]. Mermerian AH, et al. Structure-activity relationship, kinetic mechanism, and selectivity for a new class of ubiquitin C-terminal hydrolase-L1 (UCH-L1) inhibitors. Bioorg Med Chem Lett. 2007 Jul 1;17(13):3729-32.

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