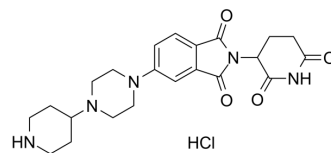


Thalidomide-Piperazine-Piperidine hydrochloride

Cat. No.:	HY-138783A
CAS No.:	2599846-44-1
Molecular Formula:	C ₂₂ H ₂₈ ClN ₅ O ₄
Molecular Weight:	461.94
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 33.33 mg/mL (72.15 mM; Need ultrasonic)
DMSO : 3.6 mg/mL (7.79 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		2.1648 mL	10.8239 mL	21.6478 mL
	5 mM		0.4330 mL	2.1648 mL	4.3296 mL
	10 mM		0.2165 mL	1.0824 mL	2.1648 mL

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

BIOLOGICAL ACTIVITY

Description

Thalidomide-Piperazine-Piperidine hydrochloride is a synthesized E3 ligase ligand-linker conjugate. Thalidomide-Piperazine-Piperidine hydrochloride incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology^[1].

IC₅₀ & Target

Cereblon

In Vitro

PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sato T, et al. Cereblon-Based Small-Molecule Compounds to Control Neural Stem Cell Proliferation in Regenerative Medicine. *Front Cell Dev Biol.* 2021;9:629326. Published 2021 Mar 11.

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

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