
Product Data Sheet

Product Name: Thalidomide-5-PEG4-NH2 hydrochloride

Cat. No.: GC70023

Chemical Properties

Cas. No. 2743434-24-2

Formula $C_{21}H_{28}ClN_3O_8$

M.Wt 485.92

Solubility DMSO : 100 mg/mL (205.80 mM; Need ultrasonic)

Storage Store at -20°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Thalidomide-5-PEG4-NH2 drochloride is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based PROTAC technology^[1].

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^[2].

[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.

[2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-994.

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

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