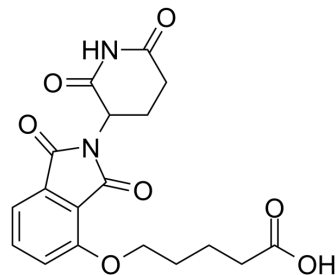


## Thalidomide-O-C4-COOH

|                           |                                                               |       |          |
|---------------------------|---------------------------------------------------------------|-------|----------|
| <b>Cat. No.:</b>          | HY-130950                                                     |       |          |
| <b>CAS No.:</b>           | 2169266-67-3                                                  |       |          |
| <b>Molecular Formula:</b> | C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>7</sub> |       |          |
| <b>Molecular Weight:</b>  | 374.34                                                        |       |          |
| <b>Target:</b>            | E3 Ligase Ligand-Linker Conjugates                            |       |          |
| <b>Pathway:</b>           | PROTAC                                                        |       |          |
| <b>Storage:</b>           | Powder                                                        | -20°C | 3 years  |
|                           |                                                               | 4°C   | 2 years  |
|                           | In solvent                                                    | -80°C | 6 months |
|                           |                                                               | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

|                                     |                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                  | Thalidomide-O-C4-COOH is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology <sup>[1]</sup> .                                                                                                                                                                               |
| <b>IC<sub>50</sub> &amp; Target</b> | Cereblon                                                                                                                                                                                                                                                                                                                                                               |
| <b>In Vitro</b>                     | 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 <sup>[2]</sup> . 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.
- [2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-1008.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA