

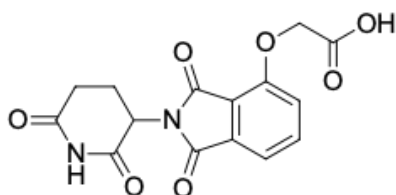
Thalidomide-carboxylic acid

<http://www.lumiprobe.com/p/thalidomide-acid>

Thalidomide-containing building block with carboxylic acid functionality for convenient PROTAC molecule assembly by attachment amino-functionalized linkers and ligands to thalidomide via 4-O-position.

Proteolysis targeting chimeras (PROTACs) are cell-permeable heterobifunctional molecules that can remove specific proteins from the cell. One end of such molecule contains a ligand to bind to the target, and the second end recruits the E3 ligase complex. Close proximity results in substrate polyubiquitination and subsequent protein degradation by cellular proteasome.

There are several types of E3 ligases that are practically suitable for such a purpose. Thalidomide is the ligand capable of recruiting Cereblon (CRBN) E3 ligase.



Structure of Thalidomide-carboxylic acid

General properties

Appearance: beige powder

Molecular weight: 332.27

CAS number: 1061605-21-7

Molecular formula: $C_{15}H_{12}N_2O_7$

Solubility: DMF, DMSO

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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