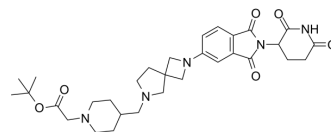


Thalidomide-azetidone-pyrrolidine-C-piperidine-C-boc

| | |
|--------------------|---|
| Cat. No.: | HY-161198 |
| Molecular Formula: | C ₃₁ H ₄₁ N ₅ O ₆ |
| Molecular Weight: | 579.69 |
| Target: | Ligands for E3 Ligase; Autophagy |
| Pathway: | PROTAC; Autophagy |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | Thalidomide-azetidone-pyrrolidine-C-piperidine-C-boc is a conjugate of E3 ligase ligand and linker, consisting of Thalidomide (HY-14658) and the corresponding Linker. Thalidomide-azetidone-pyrrolidine-C-piperidine-C-boc can serve as a Cereblon ligand to recruit CRBN protein and serve as a key intermediate for the synthesis of complete PROTAC molecules. |
| IC ₅₀ & Target | Cereblon (CRBN) ^[1] |

REFERENCES

- [1]. Fischer ES, et al. Structure of the DDB1-CRBN E3 ubiquitin ligase in complex with thalidomide. *Nature*. 2014 Aug 7;512(7512):49-53.
- [2]. Sun X, et al. Synergistic Inhibition of Thalidomide and Icotinib on Human Non-Small Cell Lung Carcinomas Through ERK and AKT Signaling. *Med Sci Monit*. 2018 May 15;24:3193-3203.
- [3]. Bian C, et al. Thalidomide (THD) alleviates radiation induced lung fibrosis (RILF) via down-regulation of TGF-β/Smad3 signaling pathway in an Nrf2-dependent manner. *Free Radic Biol Med*. 2018 Dec;129:446-453.

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

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