# Thalidomide-O-C4H4-N(Me)-piperidine-C2-OH

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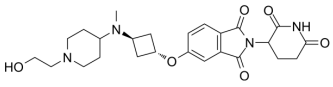
| **Cat. No.:** | HY-161188 |
| **Molecular Formula:** | $C_{25}H_{32}N_4O_6$ |
| **Molecular Weight:** | 484.54 |
| **Target:** | Ligands for E3 Ligase; Autophagy |
| **Pathway:** | PROTAC; Autophagy |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

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| **Description** | Thalidomide-O-C4H4-N(Me)-piperidine-C2-OH is a conjugate of E3 ligase ligand and linker, consisting of Thalidomide (HY-14658) and the corresponding Linker. Thalidomide-O-C4H4-N(Me)-piperidine-C2-OH can serve as 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.



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