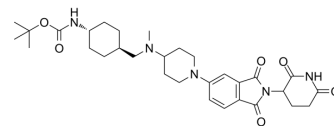


## (1*r*,4*r*)-Thalidomide-piperidine-N(Me)-CH-cyclohexane-NH-Boc

Cat. No.:	HY-163229
Molecular Formula:	C <sub>31</sub> H <sub>43</sub> N <sub>5</sub> O <sub>6</sub>
Molecular Weight:	581.7
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	(1 <i>r</i> ,4 <i>r</i> )-Thalidomide-piperidine-N(Me)-CH-cyclohexane-NH-Boc is a conjugate of E3 ligase ligand and linker, consisting of Thalidomide (HY-14658) and the corresponding Linker. (1 <i>r</i> ,4 <i>r</i> )-Thalidomide-piperidine-N(Me)-CH-cyclohexane-NH-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 <sub>50</sub> & Target	Cereblon (CRBN) <sup>[1]</sup>

### 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.**

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