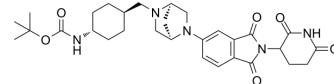


(1R,4R)-Thalidomide-2,5-diazabicyclo[2.2.1]heptane-(1R,4r)-cyclohexane-NH-Boc

Cat. No.:	HY-163227
Molecular Formula:	C ₃₀ H ₃₉ N ₅ O ₆
Molecular Weight:	565.66
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	(1R,4R)-Thalidomide-2,5-diazabicyclo[2.2.1]heptane-(1R,4r)-cyclohexane-NH-Boc is a conjugate of E3 ligase ligand and linker, consisting of Thalidomide (HY-14658) and the corresponding Linker. (1R,4R)-Thalidomide-2,5-diazabicyclo[2.2.1]heptane-(1R,4r)-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.
IC₅₀ & 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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