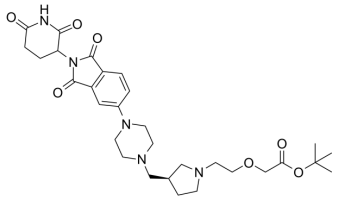
Thalidomide-piperazine-(S)-CH2-pyrrolidine-C2-O-CH2-COO-C(CH3)3

Cat. No.:	HY-157749
Molecular Formula:	$C_{30}H_{41}N_5O_7$
Molecular Weight:	583.68
Target:	Ligands for E3 Ligase; Autophagy; E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thalidomide-piperazine-(S)-CH2-Pyrrolidine-C2-O-CH2-COO-C (CH3)3 is a synthetic E3 ligase ligand-Linker conjugate. Thalidomide-piperazine-(S)-Ch2-Pyrrolidine-C2-O-CH2-COO-C(CH3)3 includes Thalidomide-based cereblon ligands and linkers. Thalidomide-piperazine-(S)-CH2-Pyrrolidine-C2-O-CH2-COO-C(CH3)3 can be used to synthesize PROTAC BET[1].
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.

[4]. Kim JH, et al. Thalidomide: the tragedy of birth defects and the effective treatment of disease. Toxicol Sci. 2011 Jul;122(1):1-6.

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