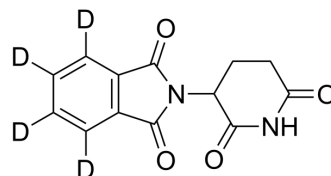


Thalidomide-d₄

Cat. No.:	HY-14658S		
CAS No.:	1219177-18-0		
Molecular Formula:	C ₁₃ H ₆ D ₄ N ₂ O ₄		
Molecular Weight:	262.25		
Target:	Ligands for E3 Ligase; Autophagy; Apoptosis; Molecular Glues		
Pathway:	PROTAC; Autophagy; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Thalidomide-d ₄ is a deuterium labeled Thalidomide. Thalidomide inhibits cereblon (CRBN), a part of the cullin-4 E3 ubiquitin ligase complex CUL4-RBX1-DDB1, with a Kd of ~250 nM, and has immunomodulatory, anti-inflammatory and anti-angiogenic cancer properties[1][2].
IC₅₀ & Target	Kd: ~250 nM (CRL4 ^{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.

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

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