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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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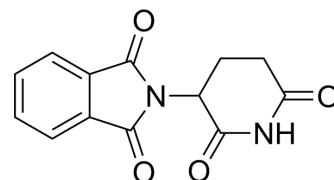
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Thalidomide (Standard)

Cat. No.:	HY-14658R
CAS No.:	50-35-1
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₄
Molecular Weight:	258.23
Target:	Ligands for E3 Ligase; Autophagy; Apoptosis
Pathway:	PROTAC; Autophagy; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thalidomide (Standard) is the analytical standard of Thalidomide. This product is intended for research and analytical applications. Thalidomide inhibits cereblon (CRBN), a part of the cullin-4 E3 ubiquitin ligase complex CUL4-RBX1-DDB1, with a K_d of ~250 nM, and has immunomodulatory, anti-inflammatory and anti-angiogenic cancer properties. Thalidomide can work as molecular glue to potentiate substrate.
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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