



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

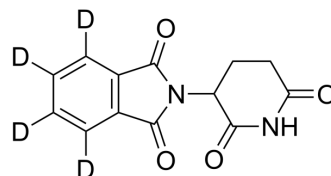
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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:	Molecular Glues; Apoptosis; Autophagy; Ligands for E3 Ligase		
Pathway:	PROTAC; Apoptosis; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 12 mg/mL (45.76 mM)
 DMSO : ≥ 12 mg/mL (45.76 mM)
 DMF : ≥ 12 mg/mL (45.76 mM)
 DMF : ≥ 12 mg/mL (45.76 mM)
 DMSO:PBS (pH 7.2) (1:1) : ≥ 0.11 mg/mL (0.42 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.8132 mL	19.0658 mL	38.1316 mL
	5 mM		0.7626 mL	3.8132 mL	7.6263 mL
	10 mM		0.3813 mL	1.9066 mL	3.8132 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Thalidomide-d₄ is a deuterium labeled Thalidomide. 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[1][2].

IC₅₀ & Target

Cereblon

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.

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