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Produktinformation



Forschungsprodukte & Biochemikalien



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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

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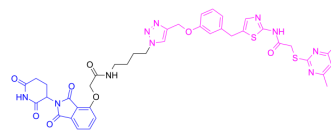
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PROTAC Sirt2 Degradar-1

Cat. No.:	HY-103636		
CAS No.:	2098487-75-1		
Molecular Formula:	C ₄₀ H ₄₀ N ₁₀ O ₈ S ₂		
Molecular Weight:	852.94		
Target:	Sirtuin; PROTACs		
Pathway:	Cell Cycle/DNA Damage; Epigenetics; PROTAC		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (117.24 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.1724 mL	5.8621 mL	11.7242 mL
5 mM	0.2345 mL	1.1724 mL	2.3448 mL
10 mM	0.1172 mL	0.5862 mL	1.1724 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (2.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (2.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC Sirt2 Degradar-1 is a SirReal-based PROTAC, acts as a Sirt2 degrader, composed of a highly potent and isotype-selective Sirt2 inhibitor, a linker, and a bona fide Cereblon ligand for E3 ubiquitin ligase. PROTAC Sirt2 Degradar-1 shows an IC₅₀ of 0.25 μM for Sirt2, with no effect on Sirt1/Sirt3 (IC₅₀s > 100 μM)^[1].

IC₅₀ & Target

SIRT2
 0.25 μM (IC₅₀)

In Vitro

PROTAC Sirt2 Degradar-1 (Compound 12; 10 μM, 1-6 hours) induces Sirt2 degradation in HeLa cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Western Blot Analysis^[1]

Cell Line:	HeLa cells
Concentration:	10 μ M
Incubation Time:	1-6 hours
Result:	Caused Sirt2 degradation, but showed no effect on Sirt1 levels.

REFERENCES

[1]. Schiedel M, et al. Chemically Induced Degradation of Sirtuin 2 (Sirt2) by a Proteolysis Targeting Chimera (PROTAC) Based on Sirtuin Rearranging Ligands (SirReals). J Med Chem. 2018 Jan 25;61(2):482-491.

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

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