PROTAC BRD9 Degrader-1

Cat. No.: HY-103632

CAS No.: 2097971-01-0

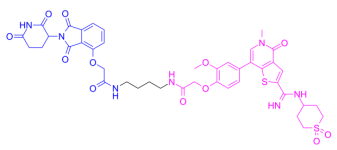
Molecular Formula: $C_{42}H_{45}N_7O_{12}S_2$

Molecular Weight: 903.98

Target: PROTACs; Epigenetic Reader Domain

Pathway: PROTAC; Epigenetics

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (165.93 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1062 mL	5.5311 mL	11.0622 mL
	5 mM	0.2212 mL	1.1062 mL	2.2124 mL
	10 mM	0.1106 mL	0.5531 mL	1.1062 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC BRD9 Degrader-1 is a PROTAC connected by ligands for Cereblon and BRD9 (IC_{50}=13.5 nM), which can be used as a selective probe useful for the study of BAF complex biology[1].

IC_{50} & Target

BRD9	BRD4	CRBN-DDB1
13.5 nM (IC_{50})	3.78 μM (IC_{50})	48.9 nM (IC_{50})

In Vitro

PROTAC BRD9 Degrader-1 (Compound 1) inhibits BRD9, BRD4, and CRBN-DDB1 with IC_{50}s of 13.5 nM, 3.78 μM, and 48.9 nM, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biochim Biophys Acta Mol Basis Dis. 2023 Dec 7:166983.

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REFERENCES

[1]. Remillard D, et al. Degradation of the BAF Complex Factor BRD9 by Heterobifunctional Ligands. Angew Chem Int Ed Engl. 2017 May 15;56(21):5738-5743.

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