

dBRD9 HCl

Chemical Properties

CAS No. : 2341840-98-8

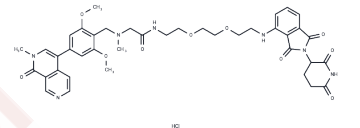
Formula: C₄₀H₄₇Cl₂N₇O₁₀

Molecular Weight: 856.75

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	dBRD9 HCl is a PROTAC composed of the BRD9 inhibitor BI 7273 conjugated to the cereblon E3 ligase ligand pomalidomide . dBRD9 HCl is a potent and selective degrader of BRD9 (IC ₅₀ = 56.6 nM in MOLM-13 cells). dBRD9 HCl does not degrade BRD4 or BRD7 at concentrations up to 5 μM. dBRD9 HCl displays antiproliferative effects in human AML cell lines.
Targets(IC ₅₀)	Epigenetic Reader Domain,PROTACs
In vitro	dBRD9 (0.5-5000 nM; 4 h) reduces the expression of BRD9 in MOLM-13 cells in a concentration dependent manner with no significant effect on the expression of actin, BRD4, and BRD7. dBRD9 (100 nM; 2 hours) exhibits selectivity towards BRD9 in MOLM-13 cells. dBRD9 (7 days) exhibits anti-proliferative effects on EOL-1 and MOML-13 cell lines [1].

Solubility Information

Solubility	H ₂ O: 15.4 mg/mL (17.97 mM),Sonication is recommended. DMSO: 38.5 mg/mL (44.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1672 mL	5.836 mL	11.672 mL
5 mM	0.2334 mL	1.1672 mL	2.3344 mL
10 mM	0.1167 mL	0.5836 mL	1.1672 mL
50 mM	0.0233 mL	0.1167 mL	0.2334 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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