BRD7-IN-1

Cat. No.: HY-111905

CAS No.: 2448414-48-8

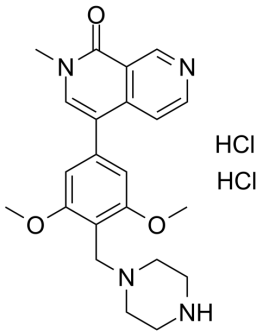
Molecular Formula: $C_{22}H_{28}Cl_2N_4O_3$

Molecular Weight: 467.39

Target: Epigenetic Reader Domain

Pathway: Epigenetics

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (213.95 mM; Need ultrasonic)
DMSO : 30 mg/mL (64.19 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1395 mL	10.6977 mL	21.3954 mL
5 mM	0.4279 mL	2.1395 mL	4.2791 mL
10 mM	0.2140 mL	1.0698 mL	2.1395 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (213.95 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3 mg/mL (6.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3 mg/mL (6.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BRD7-IN-1, a modified derivative of BI7273 (BRD7/9 inhibitor), binds to a VHL ligand via a linker to form a PROTAC VZ185 (VZ185 against BRD7/9 with DC_{50}s of 4.5 and 1.8 nM, respectively)[1].

IC_{50} & Target

BRD7, BRD9[1]

REFERENCES

[1]. Zoppi V, et al. Iterative Design and Optimization of Initially Inactive Proteolysis Targeting Chimeras (PROTACs) Identify VZ185 as a Potent, Fast, and Selective von Hippel-Lindau (VHL) Based Dual Degrader Probe of BRD9 and BRD7. J Med Chem. 2019 Jan 24;62

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