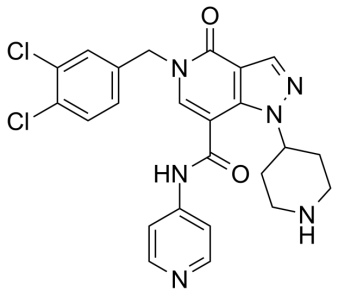
BDP-13176

Cat. No.:	HY-111578
CAS No.:	2290660-61-4
Molecular Formula:	$C_{24}H_{22}Cl_2N_6O_2$
Molecular Weight:	497.38
Target:	Others
Pathway:	Others
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 : 125 mg/mL (251.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0105 mL	10.0527 mL	20.1054 mL
	5 mM	0.4021 mL	2.0105 mL	4.0211 mL
	10 mM	0.2011 mL	1.0053 mL	2.0105 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: ≥ 2.08 mg/mL (4.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (4.18 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BDP-13176 is a potent fascin 1 inhibitor, with a K_d of 90 nM and an IC_{50} of 240 nM. BDP-13176 has potential as an anti-metastatic agent[1].

In Vitro

BDP-13176 (0-1 μM) inhibits fascin 1 bundling activity[1].

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

REFERENCES

[1]. Francis S, et al. Structure-based design, synthesis and biological evaluation of a novel series of isoquinolone and pyrazolo[4,3-c]pyridine inhibitors of fascin 1 as potential anti-metastatic agents. Bioorg Med Chem Lett. 2019;29(8):1023-1029.

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