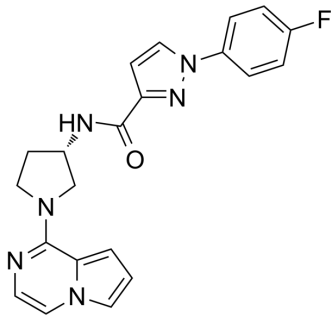
CXCR7 antagonist-1

Cat. No.:	HY-139643
CAS No.:	1613021-99-0
Molecular Formula:	$C_{21}H_{19}FN_6O$
Molecular Weight:	390.41
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (256.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5614 mL	12.8070 mL	25.6141 mL
	5 mM	0.5123 mL	2.5614 mL	5.1228 mL
	10 mM	0.2561 mL	1.2807 mL	2.5614 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 (6.40 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CXCR7 antagonist-1 is a CXCR7 antagonist that inhibits the binding of the SDF-1 chemokine (also known as the CXCL12 chemokine) or I-TAC (also known as CXCL11) to the chemokine receptor CXCR7. CXCR7 antagonist-1 is useful in preventing tumor cell proliferation, tumor formation, inflammatory diseases, and many other diseases (extracted from patent WO2014085490A1, compound 1.128)[1].

IC_{50} & Target

CXCR7

REFERENCES

[1]. Junfa Fan, et al. Cxcr7 antagonists. Patent WO2014085490A1.

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