CXCR7 antagonist-1 hydrochloride

Cat. No.: HY-139643A

Molecular Formula: $C_{21}H_{20}ClFN_6O$

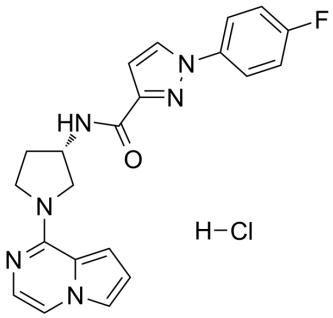
Molecular Weight: 426.87

Target: CXCR

Pathway: GPCR/G Protein; Immunology/Inflammation

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

DMSO : 350 mg/mL (819.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3426 mL	11.7132 mL	23.4263 mL
	5 mM	0.4685 mL	2.3426 mL	4.6853 mL
	10 mM	0.2343 mL	1.1713 mL	2.3426 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: ≥ 8.75 mg/mL (20.50 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 8.75 mg/mL (20.50 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 8.75 mg/mL (20.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CXCR7 antagonist-1 hydrochloride 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 hydrochloride 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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