BMPR2-IN-1 TFA

Cat. No.: HY-154970A

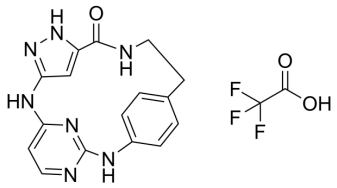
Molecular Formula: $C_{18}H_{16}F_3N_7O_3$

Molecular Weight: 435.36

Target: TGF-β Receptor

Pathway: TGF-beta/Smad

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (229.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2969 mL	11.4847 mL	22.9695 mL
	5 mM	0.4594 mL	2.2969 mL	4.5939 mL
	10 mM	0.2297 mL	1.1485 mL	2.2969 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 (5.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BMPR2-IN-1 (Compound 8a) is a BMPR2 inhibitor with an IC_{50} of 506 nM and a K_D of 83.5 nM. BMPR2-IN-1 can be used for research of pulmonary arterial hypertension, Alzheimer's disease and cancer[1].

REFERENCES

[1]. Amrhein JA, et al. Design and Synthesis of Pyrazole-Based Macrocyclic Kinase Inhibitors Targeting BMPR2. ACS Med Chem Lett. 2023 May 30;14(6):833-840.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA