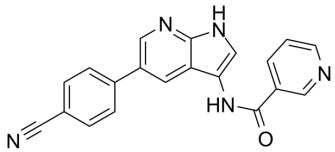
Pim1/AKK1-IN-1

Cat. No.:	HY-10371
CAS No.:	1093222-27-5
Molecular Formula:	$C_{20}H_{13}N_5O$
Molecular Weight:	339.35
Target:	Pim
Pathway:	JAK/STAT Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (147.34 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9468 mL	14.7340 mL	29.4681 mL
5 mM	0.5894 mL	2.9468 mL	5.8936 mL
10 mM	0.2947 mL	1.4734 mL	2.9468 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 (7.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pim1/AKK1-IN-1 is a potent multi-kinase inhibitor with K_d values of 35 nM/53 nM/75 nM/380 nM for Pim1/AKK1/MST2/LKB1 respectively, and also inhibits MPSK1 and TNIK.

IC_{50} & Target

PIM1

In Vitro

Pim1/AKK1-IN-1 is multi-kinase inhibitor, and has K_d of 380 nM against LKB1 and 53 nM against AAK1[1].

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

CUSTOMER VALIDATION

- Nat Metab. 2022 Sep 1.
- EMBO J. 2021 Sep 2;e108028.
- Cell Rep. 2022 Aug 16;40(7):111188.
- Animals (Basel). 2022 Sep 19;12(18):2474.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Bamborough P, et al. Assessment of chemical coverage of kinome space and its implications for kinase drug discovery. J Med Chem. 2008 Dec 25;51(24):7898-914.

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