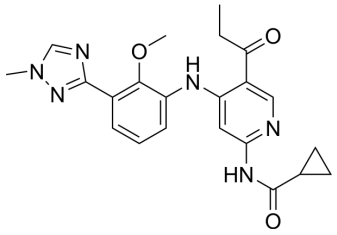
JAK-IN-26

Cat. No.:	HY-153701
CAS No.:	2417134-93-9
Molecular Formula:	$C_{22}H_{24}N_6O_3$
Molecular Weight:	420.46
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
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 : 100 mg/mL (237.83 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3783 mL	11.8917 mL	23.7835 mL
5 mM	0.4757 mL	2.3783 mL	4.7567 mL
10 mM	0.2378 mL	1.1892 mL	2.3783 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 (5.95 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.95 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

JAK-IN-26 (compound 2) is an orally active JAK inhibitor with good pharmacokinetic characteristics. JAK-IN-26 inhibits IFN-α2B-induced phosphorylation of STAT3 in Jurkat cells (IC_{50}=17.2 nM)[1].

REFERENCES

[1]. Zhou M, et al. Pyridine derivatives as TYK2 kinase inhibitors and preparation thereof. China, CN113563309 A 2021-10-29.

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

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