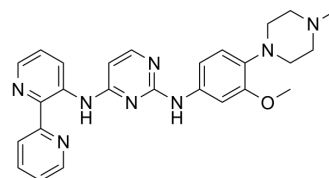


Itacnosertib

Cat. No.:	HY-109179		
CAS No.:	1628870-27-8		
Molecular Formula:	C ₂₆ H ₂₈ N ₈ O		
Molecular Weight:	468.55		
Target:	JAK; ALK		
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt; Protein Tyrosine Kinase/RTK		
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 : 12.5 mg/mL (26.68 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1342 mL	10.6712 mL	21.3424 mL
5 mM	0.4268 mL	2.1342 mL	4.2685 mL
10 mM	0.2134 mL	1.0671 mL	2.1342 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (2.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (2.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (2.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Itacnosertib (TP-0184) is both inhibitor to JAK2, ACVR1 (ALK2) and ALK5 as described in WO2014151871^[1].

REFERENCES

- [1]. Mollard, Alexis; Warner, Steven L.; Flynn, Gary A.; Vankayalapati, Hariprasad; Bearss, David J. Preparation of [(piperazinylphenyl)amino]pyrimidine derivatives as JAK2

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