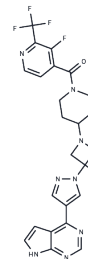


Itacitinib

Chemical Properties

CAS No. :	1334298-90-6
Formula:	C ₂₆ H ₂₃ F ₄ N ₉ O
Molecular Weight:	553.51
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Itacitinib (INC039110) is an orally bioavailable Janus-associated kinase 1 (JAK1) inhibitor with potential antineoplastic activity.
Targets(IC50)	JAK
In vitro	Itacitinib is an inhibitor of the Janus kinases (JAKs) with selectivity for JAK1.
In vivo	Itacitinib (INC039110) produced significant improvements in sPGA, demonstrating proof of concept in chronic plaque psoriasis.

Solubility Information

Solubility	DMSO: 60 mg/mL (108.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8067 mL	9.0333 mL	18.0665 mL
5 mM	0.3613 mL	1.8067 mL	3.6133 mL
10 mM	0.1807 mL	0.9033 mL	1.8067 mL
50 mM	0.0361 mL	0.1807 mL	0.3613 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

- Bissonnette R, et al. A randomized, double-blind, placebo-controlled, dose-escalation study of the safety and efficacy of INCB039110, an oral janus kinase 1 inhibitor, in patients with stable, chronic plaque psoriasis. *J Dermatolog Treat.* 2016 Aug;27(4):332-8.
- Chen C, Lu M, Lin S, et al. The nuclear gene rpl18 regulates erythroid maturation via JAK2-STAT3 signaling in zebrafish model of Diamond-Blackfan anemia. *Cell Death & Disease.* 2020, 11(2): 1-11
- Zhao C, Ma Y, Zhang M, et al. Polyamine metabolism controls B-to-Z DNA transition to orchestrate DNA sensor cGAS activity. *Immunity.* 2023
- Zhang Y, et al. Impact on creatinine renal clearance by the interplay of multiple renal transporters: a case study with INCB039110. *Drug Metab Dispos.* 2015 Apr;43(4):485-9.
- Chen C, Lu M, Lin S, et al. The nuclear gene rpl18 regulates erythroid maturation via JAK2-STAT3 signaling in zebrafish model of Diamond-Blackfan anemia[J]. *Cell Death & Disease.* 2020, 11(2): 1-11.

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