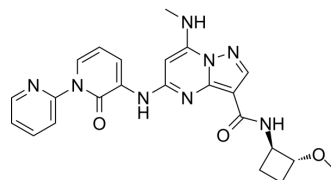


Zasocitinib

Cat. No.:	HY-150096												
CAS No.:	2272904-53-5												
Molecular Formula:	C ₂₃ H ₂₄ N ₈ O ₃												
Molecular Weight:	460.49												
Target:	JAK												
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (108.58 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1716 mL	10.8580 mL	21.7160 mL
5 mM	0.4343 mL	2.1716 mL	4.3432 mL
10 mM	0.2172 mL	1.0858 mL	2.1716 mL

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

BIOLOGICAL ACTIVITY

Description

Zasocitinib (NDI-034858) is a TYK2 inhibitor, target TYK2 JH2 domain with binding constant K_d of <200 pM^[1].

IC₅₀ & Target

Tyk2 JH2 domain^[1]

In Vitro

Zasocitinib (10 μM) exhibits inhibitory effect on Tyk2 and JAK by targeting Tyk2 JH1 and JAK JH1 domain with inhibition rates <50%, respectively^[1].
 Zasocitinib inhibits phosphorylation induction of heterodimer complex Tyk2 /JAK2-mediated IL-12 (1.7 ng/mL) effect, with IC₅₀ value of <0.1 μM in human peripheral blood mononuclear cell^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Masse, Craig E, et al. Pyrazolopyrimidines as TYK2 inhibitors and their preparation: World Intellectual Property Organization, WO2019023468. 2019-01-31.

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

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