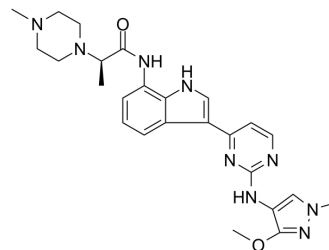


Golidocitinib

Cat. No.:	HY-107361		
CAS No.:	2091134-68-6		
Molecular Formula:	C ₂₅ H ₃₁ N ₉ O ₂		
Molecular Weight:	489.57		
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	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (204.26 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.0426 mL	10.2130 mL	20.4261 mL
	5 mM	0.4085 mL	2.0426 mL	4.0852 mL
	10 mM	0.2043 mL	1.0213 mL	2.0426 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Golidocitinib (AZD4205) is a selective JAK1 inhibitor, with an IC ₅₀ of 73 nM, weakly inhibits JAK2 (IC ₅₀ >14.7 μM), and shows little inhibition on JAK3 (IC ₅₀ >30 μM) ^[1] .
IC₅₀ & Target	JAK1 73 nM (IC ₅₀)
In Vitro	Golidocitinib (Example 32) is a selective JAK1 inhibitor, with an IC ₅₀ of 73 nM, weakly inhibits JAK2, and shows little

inhibition on JAK3 (IC₅₀, >14.7, >30 μM, respectively). Golidocitinib significantly inhibits STAT3 phosphorylation in NCI-H 1975 cells with an IC₅₀ of 161 nM^[1].

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

In Vivo

Golidocitinib (12.5 mg/kg BID (twice daily), 25 m/kg BID or 50 mg/kg BID, p.o.) alone has increasing antitumor effects, and enhances the antitumor activity of osimertinib, compared to treatment with osimertinib alone in mice bearing NCI-H1975 cells^[1].

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

REFERENCES

[1]. Annika Birgitta Margareta ÅSTRAND, et al. Compounds and methods for inhibiting jak. WO2017050938A1.

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

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