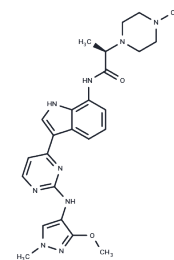


Golidocitinib

Chemical Properties

CAS No. :	2091134-68-6
Formula:	C ₂₅ H ₃₁ N ₉ O ₂
Molecular Weight:	489.57
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Golidocitinib (AZD4205) is a selective JAK1 inhibitor with an IC ₅₀ of 73 nM, while it weakly inhibits JAK2 and JAK3 with IC ₅₀ values greater than 14.7 μM and 30 μM, respectively.
Targets(IC ₅₀)	JAK
In vitro	AZD4205 significantly inhibits STAT3 phosphorylation in NCI-H 1975 cells (IC ₅₀ : 161 nM).
In vivo	AZD4205, administered orally at doses of 12.5 mg/kg, 25 mg/kg, or 50 mg/kg twice daily (BID), exhibits dose-dependent antitumor effects when used alone. Additionally, it boosts the antitumor efficacy of osimertinib when compared to the administration of osimertinib alone in mice implanted with NCI-H1975 cells.

Solubility Information

Solubility	DMSO: 250 mg/mL (510.65 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (10.21 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0426 mL	10.213 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
50 mM	0.0409 mL	0.2043 mL	0.4085 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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