

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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BMS-986202

Cat. No.:	HY-131968				
CAS No.:	1771691-34-9				
Molecular Formula:	C ₂₂ H ₁₈ D ₃ FN ₆ O ₃				
Molecular Weight:	439.46				
Target:	JAK; Cytochrome P450				
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Metabolic Enzyme/Protease				
Storage:	Powder	-20°C 4°C	3 years 2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (568.88 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2755 mL	11.3776 mL	22.7552 mL		
		5 mM	0.4551 mL	2.2755 mL	4.5510 mL		
		10 mM	0.2276 mL	1.1378 mL	2.2755 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution						

Description	BMS-986202 is a potent, selective and orally active Tyk2 inhibitor that binds to Tyk2 JH2 with an IC ₅₀ value of 0.19 nM and a K _i of 0.02 nM. BMS-986202 is remarkably selective over other kinases including Jak family members. BMS-986202 is also a weak inhibitor of CYP2C19 with an IC ₅₀ value of 14 μM. BMS-986202 can be used for IL-23-driven acanthosis, anti-CD40-induced colitis, and spontaneous lupus research. BMS-986202 is a de novo deuterium ^[1] .					
IC₅₀ & Target	Tyk2 JH2 0.19 nM (IC ₅₀)	Tyk2 JH2 0.02 nM (Ki)	CYP2C19 14 μM (IC ₅₀)			
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as					

Product Data Sheet

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	tracers for quantitation affect the pharmacokine Potential advantages of (1) Extend the half-life in compound, that is, prote ease of administration. (2) Improve oral bioavai metabolism) in the gut v action. High bioavailabil (3) Improve metabolic cl and improve drug metal (4) Improve drug safety. and are safe. (5) Preserve the therape selectivity to hydrogen a MCE has not independen	during the drug development process. Deuteration has gained attention because of its potential to etic and metabolic profiles of drugs ^[1] . deuterated compounds: a vivo. Deuterated compounds may be able to prolong the pharmacokinetic characteristics of the ong the half-life in vivo. This can improve compound safety, efficacy and tolerability, and increase lability. Deuterated compounds may reduce the degree of unwanted metabolism (first-pass vall and liver, allowing a greater proportion of the unmetabolized drug to reach its target site of ity determines its activity at low doses and better tolerance. haracteristics. Deuterated compounds may reduce the formation of toxic or reactive metabolites polism. Deuterated compounds may reduce or eliminate adverse side effects of pharmaceutical compounds utic properties. Deuterated compounds are expected to retain similar biochemical potency and analogs in previous studies. htly confirmed the accuracy of these methods. They are for reference only.		
In Vivo	BMS-986202 (Compound 7; 3-30 mg/kg; p.o.; daily; for 9 days) treatment inhibits IL-23-driven acanthosis in mice ^[1] . BMS-986202 (Compound 7; 0.4-10 mg/kg; p.o.) treatment inhibits IL-12/IL-18-induced IFNγ production in mice. BMS-986202 dose-dependently inhibits IFNγ production by 46% and 80% at doses of 2 mg/kg and 10 mg/kg, respectively ^[1] . BMS-986202 (Compound 7; 7-10 mg/kg; p.o.) is stable in liver microsomes, with half lives of greater than 120 min in mouse, rat, monkey, and humans and 89 min in dog. The serum protein binding for BMS-986202 in these species ranges from 89.3% to 96.0%, leaving a good range of free fraction of drug available. BMS-986202 shows the oral bioavailability up to 62-100% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	C57BL/6 female mice (9-11 weeks) injected with IL-23 ^[1]		
	Dosage:	3 mg/kg, 10 mg/kg, and 30 mg/kg		
	Administration:	Oral administration; daily; for 9 days		
	Result:	Inhibited ear swelling in a dose-responsive manner in IL-23-induced acanthosis in mice.		

REFERENCES

[1]. Chunjian Liu, et al. Discovery of BMS-986202: A Clinical Tyk2 Inhibitor that Binds to Tyk2 JH2. J Med Chem. 2021 Jan 14;64(1):677-694.

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

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