## BMS-986339

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Cat. No.:	HY-150787
CAS No.:	2477873-64-4
Molecular Formula:	$C_{35}H_{41}F_{4}N_{3}O_{4}$
Molecular Weight:	643.71
Target:	FXR; Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

## Product Data Sheet

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Description	BMS-986339 is an orally active 986339 can be used in the rese steatohepatitis (NASH), anti-fi	e, potent FXR agonist. BMS-986339 forms H-bond with His298 and ASN287 residues. BMS- earch of primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), and nonalcoholic ibrosis <sup>[1]</sup> .
IC₅₀ & Target	CYP2C8 8 μΜ (IC <sub>50</sub> )	CYP2C9 13.5 μΜ (IC <sub>50</sub> )
In Vitro	BMS-986339 (compound 32, 0 7 cells, and FGF19 in hepatocy BMS-986339 inhibits cytochro clamp assay (IC <sub>50</sub> : 4.5 μM) <sup>[1]</sup> . BMS-986339 inhibits transpor MCE has not independently co	1.1 nM-10 μM, 24 h) reduces activation of genes expressing BSEP (bile salt export pump) in Huh- ytes <sup>[1]</sup> . ome P450 activity (IC <sub>50</sub> : 8 μM (CYP <sub>2C8</sub> ), 13.5 μM (CYP <sub>2C9</sub> )), and inhibits hERG channel in a patch ters OATP1B3 and BSEP with IC <sub>50</sub> values of 1.44 and 1.5 μM, and hUGT1A1 (IC <sub>50</sub> : 4.85 μM) <sup>[1]</sup> .
In Vivo	BMS-986339 (compound 32, p in mouse bile duct ligation (BI BMS-986339 (p.o. or i.v., 5 mg, MCE has not independently co Animal Model:	b.o., 10 mg/kg, once daily for 9 days) induces Fgf15 production, and shows antifibrotic efficacy DL) model <sup>[1]</sup> . /kg or 1 mg/kg) exhibits low clearance and a long elimination half-life in mice and rats <sup>[1]</sup> . onfirmed the accuracy of these methods. They are for reference only.
	Dosage:	0.3, 1, 3, and 10 mg/kg, once daily for 9 days.
	Administration:	Oral administration
	Result:	Induced Fgf15 and SHP (small heterodimer partner) gene expression to a similar extent in the ileum. Decreased the ratio of hydroxyproline to the total protein content, and decreased the collagen levels.
	Animal Model:	Male C57BL6 mice, male Sprague-Dawley rat (pharmacokinetic assay) <sup>[1]</sup>

Dosage:	5 mg/kg or 1 mg/kg	5 mg/kg or 1 mg/kg			
Administration:	Oral administration, intravenous injection				
Result:	Pharmacokinetic profile of BMS-986339 (compound 32).				
	parameter	male C57BL6 mice	male Sprague-Dawley ra		
	dose (mg/kg) i.v.	1	1		
	dose (mg/kg) p.o.	5	2		
	Vss (L/kg) i.v.	2.2	5.2		
	AUCtotal (μM•h) i.v.	16.4	6.6		
	AUCtotal (μM•h) p.o.	56.6	5.8		
	t <sub>1/2</sub> h (i.v.)	16	18		
	F <sub>p.o.</sub>	69	40		

## REFERENCES

[1]. Susheel J Nara, et al. Discovery of BMS-986339, a Pharmacologically Differentiated Farnesoid X Receptor Agonist for the Treatment of Nonalcoholic Steatohepatitis. J Med Chem. 2022 Jul 14;65(13):8948-8960.

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

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