Nidufexor

Cat. No.:	HY-109096				
CAS No.:	1773489-72	-7			
Molecular Formula:	C ₂₇ H ₂₂ ClN ₃ O ₄				
Molecular Weight:	487.93				
Target:	FXR; Autophagy				
Pathway:	Metabolic Enzyme/Protease; Autophagy				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.0495 mL	10.2474 mL	20.4947 mL		
		5 mM	0.4099 mL	2.0495 mL	4.0989 mL		
		10 mM	0.2049 mL	1.0247 mL	2.0495 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
Solub 2. Add e		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution					

BIOLOGICAL ACTIV	
Description	Nidufexor (LMB763) is an orally-available farnesoid X receptor (FXR) agonist for the research of nonalcoholic steatohepatitis (NASH) ^[1] .
IC ₅₀ & Target	$FXR^{[1]}$
In Vivo	Nidufexor (LMB763) is a potent and specific FXR-gene modulator in vivo, reducing steatosis, inflammation and fibrosis in nonalcoholic steatohepatitis (NASH) murine models ^[1] . ?Nidufexor exhibits moderate C _{max} (4.5, 12.4, 28.1, 80.9, and 140.8 μM) and terminal elimination half-lives (t _{1/2} ; 3.9 5.7 6.3 5.6 6.3 h) following oral administration (3 ,10 ,30, 100, and 300mg/kg) in adult male Wistar Han rats (age approximately 10 weeks) ^[1]

Product Data Sheet

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?Nidufexor exhibits terminal elimination half-lives (mouse 4.5, rat 4.4 and, dog 6.8 h) following intravenous administration (mouse 3.0, rat 5.0 and, dog 0.5 mg/kg)^[1].

?Nidufexor exhibits terminal elimination half-lives (mouse 3.5, rat 2.7 and, dog 10.1 h) following oral administration (mouse 10, rat 10 and, dog 2 mg/kg)^[1].

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

Animal Model:	Han-Wistar rats ^[1]
Dosage:	0.1, 0.3, 1.5, 7.5, 25, 100 mg/kg (Pharmacokinetic Analysis)
Administration:	Oral gavage, once daily for 14 days
Result:	On day 1 and 13, serum exposure increased approximately dose-proportionally from 0.1 to 100 mg/kg. Exposure at 0.1 and 0.3 mg/kg was likely underestimated on day 13. No significant accumulation was observed ^[1] .

REFERENCES

[1]. Chianelli D, et al. Nidufexor (LMB763), a Novel FXR Modulator for the Treatment of Nonalcoholic Steatohepatitis. J Med Chem. 2020 Apr 23;63(8):3868-3880.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA