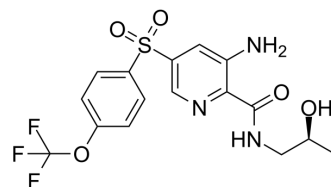


GLPG2451

Cat. No.:	HY-119936		
CAS No.:	2055015-61-5		
Molecular Formula:	C ₁₆ H ₁₆ F ₃ N ₃ O ₅ S		
Molecular Weight:	419.38		
Target:	CFTR; Autophagy		
Pathway:	Membrane Transporter/Ion Channel; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (596.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3845 mL	11.9224 mL	23.8447 mL
		5 mM	0.4769 mL	2.3845 mL	4.7689 mL
10 mM		0.2384 mL	1.1922 mL	2.3845 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: ≥ 2.08 mg/mL (4.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	GLPG2451 is a cystic fibrosis transmembrane conductance regulator (CFTR) potentiator, which effectively potentiates low temperature rescued F508del CFTR with an EC ₅₀ of 11.1 nM ^[1] .
IC₅₀ & Target	Cystic fibrosis transmembrane conductance regulator ^[1]
In Vitro	GLPG2451 has an EC ₅₀ value of 675 nM and an efficacy level of 147% of that of VX770 in G551D/F508del cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gees M, et al. Identification and Characterization of Novel CFTR Potentiators. Front Pharmacol. 2018 Oct 26;9:1221.

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

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