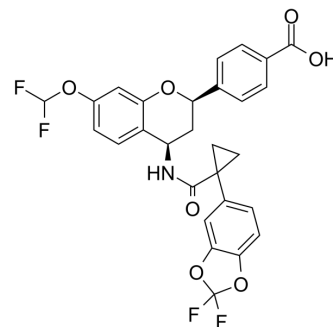


Galicaftor

Cat. No.:	HY-111111		
CAS No.:	1918143-53-9		
Molecular Formula:	C ₂₈ H ₂₁ F ₄ NO ₇		
Molecular Weight:	559		
Target:	CFTR		
Pathway:	Membrane Transporter/Ion Channel		
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 : 50 mg/mL (89.45 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.7889 mL	8.9445 mL	17.8891 mL
		5 mM		0.3578 mL	1.7889 mL	3.5778 mL
10 mM			0.1789 mL	0.8945 mL	1.7889 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: ≥ 2.5 mg/mL (4.47 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.47 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Galicaftor (ABBV-2222; GLPG-2222) is a potent and orally active cystic fibrosis transmembrane conductance regulator (CFTR) corrector. Galicaftor can be used for cystic fibrosis research ^[1] .
In Vitro	Galicaftor (ABBV-2222; GLPG-2222) exhibits potent in vitro functional activity in primary patient cells harboring F508del/F508del CFTR, with an EC ₅₀ <10 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The rat pharmacokinetic tests are performed on Galicaftor (ABBV-2222; GLPG-2222; 1 mg/kg, i.v.; 1 mg/kg, p.o.) to illustrate its pharmacokinetic properties in rats. The T _{1/2} is 2.7 hours (i.v.). And for intragastric administration, the bioavailability (%F) is 74% ^[1] .

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

REFERENCES

- [1]. Xueqing Wang, et al. Discovery of 4-[(2R,4R)-4-({[1-(2,2-Difluoro-1,3-benzodioxol-5-yl)cyclopropyl]carbonyl}amino)-7-(difluoromethoxy)-3,4-dihydro-2H-chromen-2-yl]benzoic Acid (ABBV/GLPG-2222), a Potent Cystic Fibrosis Transmembrane Conductance Regulator
- [2]. Ashvani K Singh, et al. Biological Characterization of F508delCFTR Protein Processing by the CFTR Corrector ABBV-2222/GLPG2222. J Pharmacol Exp Ther. 2020 Jan;372(1):107-118.
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Caution: Product has not been fully validated for medical applications. For research use only.

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