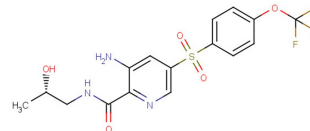


GLPG2451

Chemical Properties

CAS No.: 2055015-61-5
Formula: C₁₆H₁₆F₃N₃O₅S
Molecular Weight: 419.38
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	GLPG2451 is a cystic fibrosis transmembrane conductance regulator (CFTR) potentiator. It effectively potentiates low temperature rescued F508del CFTR (EC ₅₀ : 11.1 nM).
Targets(IC ₅₀)	Cystic fibrosis transmembrane conductance regulator: None
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.

Solubility Information

Solubility	DMSO: 270 mg/mL (643.81 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.384 mL	11.922 mL	23.845 mL
5 mM	0.477 mL	2.384 mL	4.769 mL
10 mM	0.238 mL	1.192 mL	2.384 mL
50 mM	0.048 mL	0.238 mL	0.477 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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