

GLPG2451

## Chemical Properties

CAS No. : 2055015-61-5

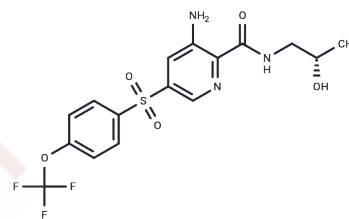
Formula: C<sub>16</sub>H<sub>16</sub>F<sub>3</sub>N<sub>3</sub>O<sub>5</sub>S

Molecular Weight: 419.38

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GLPG2451 is an effective CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) enhancer that potentiates cold-rescued F508del CFTR (EC <sub>50</sub> =11.1 nM), suitable for cystic fibrosis research.
Targets(IC <sub>50</sub> )	CFTR
In vitro	The EC <sub>50</sub> value of GLPG2451 in G551D/F508del-type cells is 675 nM, with its pharmacological activity reaching 147% of VX770 [1].

## Solubility Information

Solubility	DMSO: 200 mg/mL (476.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (7.87 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0477 mL	0.2384 mL	0.4769 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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

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