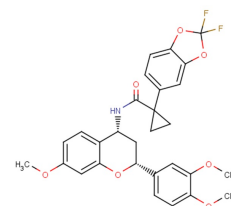


CFTR corrector 4

Chemical Properties

CAS No.:	1918142-34-3
Formula:	C ₂₉ H ₂₇ F ₂ N ₇ O ₇
Molecular Weight:	539.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CFTR corrector 4 is a highly potent and orally active corrector of cystic fibrosis transmembrane conductance regulator (CFTR). It can increase CFTR levels at the cell surface and have the potential for the treatment of cystic fibrosis.
Targets(IC ₅₀)	CFTR: (EC ₅₀)130 nM
In vitro	CFTR corrector 4 (Compound 13) possesses high potency and efficacy with an EC ₅₀ of 0.028 μM in HBE-TECC assay that assesses the CFTR function. CFTR corrector 4 is tested its potency and efficacy in human bronchial epithelial (HBE) cells with an EC ₅₀ value of 130 nM in the cell surface expression (CSE-HRP) assay.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.853 mL	9.267 mL	18.535 mL
5 mM	0.371 mL	1.853 mL	3.707 mL
10 mM	0.185 mL	0.927 mL	1.853 mL
50 mM	0.037 mL	0.185 mL	0.371 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

- Wang X, 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 (CFTR) Corrector for the Treatment of Cystic Fibrosis.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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