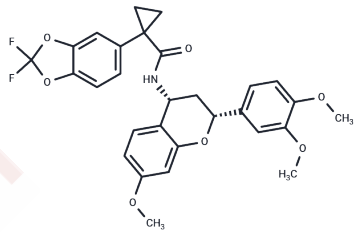
Data Sheet (Cat.No.T10776)

TargetMol

CFTR corrector 4

Chemical Properties



CAS No. : 1918142-34-3

Formula: C29H27F2NO7

Molecular Weight: 539.52

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	CFTR corrector 4 is a potent and orally available transmembrane conductance regulator (CFTR) for cystic fibrosis and is a potent (R,R) type active enantiomer. CFTR corrector 4 increases CFTR levels on the cell surface and is a potential compound for the study of cystic fibrosis.
Targets(IC50)	CFTR
In vitro	CFTR corrector 4 (Compound 13) possesses high potency and efficacy with an EC50 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 EC50 value of 130 nM in the cell surface expression (CSE-HRP) assay.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (92.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8535 mL	9.2675 mL	18.535 mL
5 mM	0.3707 mL	1.8535 mL	3.707 mL
10 mM	0.1853 mL	0.9267 mL	1.8535 mL
50 mM	0.0371 mL	0.1853 mL	0.3707 mL

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

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.

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