Product Data Sheet

CFTR corrector 4

 Cat. No.:
 HY-135279

 CAS No.:
 1918142-34-3

 Molecular Formula:
 C₂₉H₂₇F₂NO₇

 Molecular Weight:
 539.52

 Target:
 CFTR

Pathway: Membrane Transporter/Ion Channel

Storage: Powder -20°C

4°C 2 years

3 years

In solvent -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 110 mg/mL (203.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.8535 mL	9.2675 mL	18.5350 mL
	5 mM	0.3707 mL	1.8535 mL	3.7070 mL
	10 mM	0.1853 mL	0.9267 mL	1.8535 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description CFTR corrector 4 (Compound 13), an active (R,R)-form enantiomer, is a highly potent and orally active cystic fibrosis transmembrane conductance regulator (CFTR) corrector. CFTR corrector 4 can increase CFTR levels at the cell surface and have the potential for treatment of cystic fibrosis^[1].

IC₅₀ & Target EC50:130 nM (CFTR)^[1]

CFTR corrector 4 possesses high potency and efficacy with a EC₅₀ of 0.028 μM in this HBE-TECC assay that assess the CFTR function, this lead resides in undesirable drug-like space with high molecular weight, and high HPLC Log D, indicating high

lipophilicity. HBE-TECC: (Human Bronchial Epithelial-Trans-Epithelial Current Clamp) assay^[1].

CFTR corrector 4 is tested its potency and efficacy in human bronchial epithelial (HBE) cells with a EC_{50} value 130 nM in the cell surface expression (CSE-HRP) assay^[1].

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

REFERENCES

In Vitro



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