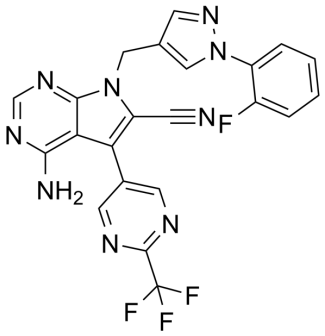
CFTR corrector 6

Cat. No.:	HY-136939
CAS No.:	2226970-01-8
Molecular Formula:	$C_{22}H_{13}F_4N_9$
Molecular Weight:	479.39
Target:	CFTR
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (208.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0860 mL	10.4299 mL	20.8598 mL
	5 mM	0.4172 mL	2.0860 mL	4.1720 mL
	10 mM	0.2086 mL	1.0430 mL	2.0860 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.21 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CFTR corrector 6 is a potent potentiator of Cystic Fibrosis Transmembrane conductance Regulator (CFTR). CFTR corrector 6 has the potential for cystic fibrosis (CF) and other CFTR associated disorders research[1].

In Vitro

CFTR corrector 6 (Example 27) has EC_{50}s of 1.25 nM and 1.27 nM for primary cystic fibrosis human bronchial epithelial (CF hBE) cells and fischer rat thyroid (FRT) cell lines[1].

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

REFERENCES

[1]. Joseph Walter Strohbach, et al. Pyrrolopyrimidines as cftr potentiators. WO2018094137A1

Caution: Product has not been fully validated for medical applications. For research use only.

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