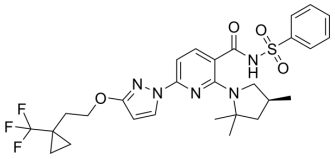
Bamocaftor

Cat. No.:	HY-126394
CAS No.:	2204245-48-5
Molecular Formula:	$C_{28}H_{32}F_3N_5O_4S$
Molecular Weight:	591.64
Target:	CFTR
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (169.02 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6902 mL	8.4511 mL	16.9022 mL
	5 mM	0.3380 mL	1.6902 mL	3.3804 mL
	10 mM	0.1690 mL	0.8451 mL	1.6902 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bamocaftor (VX-659) is a cystic fibrosis transmembrane conductance regulator (CFTR) corrector designed to restore F508del-CFTR protein function. Bamocaftor can be used combine with Tezacaftor (HY-15448) and Ivacaftor (HY-13017) in cystic fibrosis research[1].

In Vitro

Bamocaftor is a CFTR corrector designed to restore F508del-CFTR protein function[1].

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

REFERENCES

[1]. Ghelani DP, et al. Emerging Cystic Fibrosis Transmembrane Conductance Regulator Modulators as New Drugs for Cystic Fibrosis: A Portrait of in Vitro Pharmacology and Clinical Translation.

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