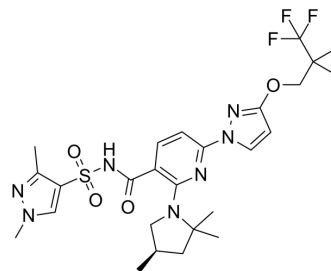


(R)-Elexacaftor

Cat. No.:	HY-111772A		
CAS No.:	2229860-99-3		
Molecular Formula:	C ₂₆ H ₃₄ F ₃ N ₇ O ₄ S		
Molecular Weight:	597.65		
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 (167.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6732 mL	8.3661 mL	16.7322 mL
	5 mM	0.3346 mL	1.6732 mL	3.3464 mL
	10 mM	0.1673 mL	0.8366 mL	1.6732 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-Elexacaftor is an enantiomer of Elexacaftor (HY-111772). (R)-Elexacaftor is the Compound 37 from patent WO2018107100A1. (R)-Elexacaftor is a modulator of cystic fibrosis transmembrane conductance regulator (CFTR), the EC50 for CFTR dF508 is 0.29 μM^[1].

REFERENCES

[1]. Modulator of cystic fibrosis transmembrane conductance regulator, pharmaceutical compositions, methods of treatment, and process for making the modulator. WO2018107100A1

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

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