Emraclidine

Cat. No.: HY-132812

CAS No.: 2170722-84-4

Molecular Formula: $C_{20}H_{21}F_3N_4O$

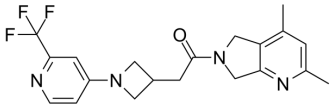
Molecular Weight: 390.4

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

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 : 25 mg/mL (64.04 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5615 mL	12.8074 mL	25.6148 mL
5 mM	0.5123 mL	2.5615 mL	5.1230 mL
10 mM	0.2561 mL	1.2807 mL	2.5615 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 (6.40 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Emraclidine (CVL-231) is a muscarinic M4 receptor positive allosteric modulator (WO2018002760, compound 11). Emraclidine can be used for the research of neurological diseases[1].

IC_{50} & Target

Muscarinic M4 Receptor[1]

In Vitro

Emraclidine is a muscarinic M4 receptor positive allosteric modulator[1].

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

REFERENCES

[1]. WO2018002760

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