Inhibitors

MK-7622

Target:

Storage:

Cat. No.: HY-15618

CAS No.: 1227923-29-6 Molecular Formula: $C_{25}H_{25}N_3O_2$ Molecular Weight: 399.48

Pathway: GPCR/G Protein; Neuronal Signaling

mAChR

Powder -20°C 3 years 4°C 2 years

In solvent -80°C 2 years

> -20°C 1 year

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro DMSO : ≥ 100 mg/mL (250.33 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.5033 mL	12.5163 mL	25.0325 mL
	5 mM	0.5007 mL	2.5033 mL	5.0065 mL
	10 mM	0.2503 mL	1.2516 mL	2.5033 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 (6.26 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.26 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	MK-7622 (M1 receptor modulator) is a muscarinic M1 receptor positive allosteric modulator ^{[1][2]} .
IC ₅₀ & Target	M1 receptor ^[1]

REFERENCES

Laudiuk Scott D, et al. Dihydroberoogin azorlione MI receptor positive allosteric modulators. From PCT int. Appl. (2012), W0 2012067712 At 20120412. Waturk Scott D, et al. Benzoquinazorlinone derivatives as MI receptor positive allosteric modulators and their preparation, pharmaceutical compositions and use in the eatment of diseases. From PCT int. Appl. (2010), W0 2010059773 At 20100527. Caution: Product has not been fully validated for medical applications. For research use only. Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr., Suite Q, Monmouth Junction, NJ 08852, USA	[2]. Kuduk Scott D, et al. Benzoqu	In a second seco	and the second s	France DOT Lat. A (2012) 1112 2012 1	2 41 20120412
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