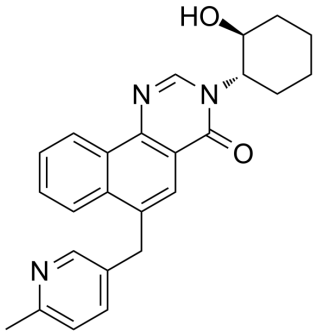
MK-7622

Cat. No.:	HY-15618
CAS No.:	1227923-29-6
Molecular Formula:	$C_{25}H_{25}N_3O_2$
Molecular Weight:	399.48
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (250.33 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Concentration / Solvent / Mass	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

[1]. Kuduk Scott D, et al. Dihydrobenzoquinazolinone M1 receptor positive allosteric modulators. From PCT Int. Appl. (2012), WO 2012047702 A1 20120412.

[2]. Kuduk Scott D, et al. Benzoquinazolinone derivatives as M1 receptor positive allosteric modulators and their preparation, pharmaceutical compositions and use in the treatment of diseases. From PCT Int. Appl. (2010), WO 2010059773 A1 20100527.

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