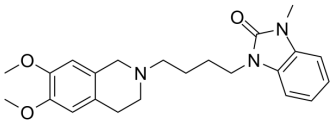
CM398

Cat. No.:	HY-145628
CAS No.:	1121931-70-1
Molecular Formula:	$C_{23}H_{29}N_3O_3$
Molecular Weight:	395.49
Target:	Sigma Receptor
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 : 250 mg/mL (632.13 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5285 mL	12.6425 mL	25.2851 mL
	5 mM	0.5057 mL	2.5285 mL	5.0570 mL
	10 mM	0.2529 mL	1.2643 mL	2.5285 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: ≥ 2.08 mg/mL (5.26 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.26 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CM398 is a highly selective, orally active sigma-2 receptor ligand (K_i=0.43 nM), with high sigma-1/sigma-2 selectivity rato (1000-fold). CM398 shows notable affinity for dopamine (K_i=32.90 nM) and serotonin transporters (K_i=244.2 nM). CM398 shows promising anti-inflammatory analgesic effects in the formalin model of inflammatory pain in mice[1].

REFERENCES

[1]. Intagliata S, et al. Discovery of a Highly Selective Sigma-2 Receptor Ligand, 1-(4-(6,7-Dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)butyl)-3-methyl-1H-benzo[d]imidazol-2(3H)-one (CM398), with Drug-Like Properties and Antinociceptive Effects In Vivo. AAPS J. 2020;22(5):94. Published 2020 Jul 20.

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