CP-409092

Cat. No.: HY-101639

CAS No.: 194098-25-4

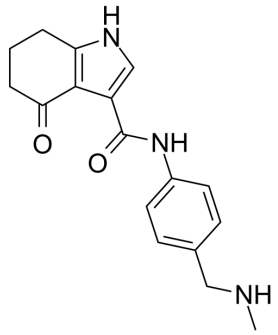
Molecular Formula: $C_{17}H_{19}N_3O_2$

Molecular Weight: 297.35

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (140.14 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	3.3630 mL	16.8152 mL	33.6304 mL
	5 mM	0.6726 mL	3.3630 mL	6.7261 mL
	10 mM	0.3363 mL	1.6815 mL	3.3630 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 (7.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.00 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CP-409092 is a partial agonist of $GABA_A$ receptor, with anti-anxiety activity[1].

IC_{50} & Target

$GABA_A$ receptor[1]

In Vivo

The pharmacokinetics of CP-409,092 following single intravenous and oral doses of 4 and 15 mg/kg, respectively, are characterized by high clearance of 169+ or -18 mL/min/kg, a volume of distribution of 8.99+ or -1.46 L/kg, and an oral bioavailability of 2.9%+ or -3%. Following oral administration of 100 mg/kg [^{14}C]CP-409,092, the total recovery is 89.1%+ or -3.2% for male rats and 89.3%+ or -0.58% for female rats[1].

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

REFERENCES

[1]. Kamel A, et al. Metabolism, pharmacokinetics and excretion of the GABA(A) receptor partial agonist [(14)C]CP-409,092 in rats. Xenobiotica. 2010 Jun;40(6):400-14.

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