Paroxetine

Cat. No.: HY-122272

CAS No.: 61869-08-7

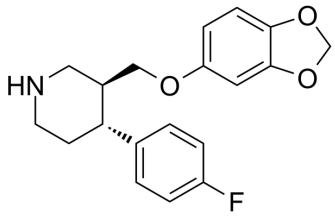
Molecular Formula: $C_{19}H_{20}FNO_3$

Molecular Weight: 329.37

Target: Serotonin Transporter; Adrenergic Receptor

Pathway: Neuronal Signaling; GPCR/G Protein

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (151.80 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0361 mL	15.1805 mL	30.3610 mL
	5 mM	0.6072 mL	3.0361 mL	6.0722 mL
	10 mM	0.3036 mL	1.5180 mL	3.0361 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 (7.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Paroxetine, a phenylpiperidine derivative, is a potent and selective serotonin reuptake inhibitor (SSRI). Paroxetine is a very weak inhibitor of norepinephrine (NE) uptake but it is still more potent at this site than the other SSRIs[1].

CUSTOMER VALIDATION

- Cell. 2021 Apr 15;184(8):2167-2182.e22.
- Front Pharmacol. 22 June 2022.
- J Chem Inf Model. 2021 Jul 21.

- Brain Res. 2019 Oct 1;1720:146296.
- J Mol Cell Cardiol Plus. 2024 Jun, 8, 100072.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. M Bourin, et al. Paroxetine: a review. CNS Drug Rev. Spring 2001;7(1):25-47

Caution: Product has not been fully validated for medical applications. For research use only.

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