Tedatioxetine hydrobromide

Cat. No.: HY-101755

CAS No.: 960151-65-9

Molecular Formula: $C_{18}H_{22}BrNS$

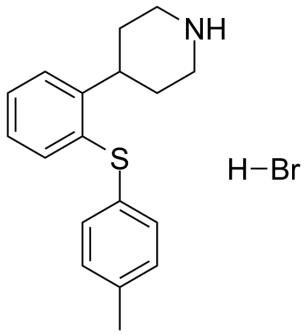
Molecular Weight: 364.34

Target: 5-HT Receptor; Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (274.47 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7447 mL	13.7234 mL	27.4469 mL
	5 mM	0.5489 mL	2.7447 mL	5.4894 mL
	10 mM	0.2745 mL	1.3723 mL	2.7447 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 (6.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tedatioxetine (Lu AA24530) hydrobromide acts as a serotonin and norepinephrine (NE)-preferring triple reuptake inhibitor (TRI) and 5-HT_{2A}, 5-HT_{2C}, 5-HT_3 and α_{1A}-adrenergic receptor antagonist[1]

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IC_{50} & Target	5-HT_{2A} Receptor	5-HT_{2C} Receptor	5-HT_3 Receptor	α1A-adrenergic receptor

In Vitro

Tedatioxetine is an antidepressant agent. It acts as a triple reuptake inhibitor and 5-HT_{2A}, 5-HT_{2C}, 5-HT_3 and α_{1A}-adrenergic receptor antagonist[1].

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

REFERENCES

[1]. Javelot H. [Psychopharmacology of anxiety and depression: Historical aspects, current treatments and perspectives]. Ann Pharm Fr. 2016 Mar;74(2):93-118.

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