4-Hydroxyatomoxetine

Cat. No.: HY-133116

CAS No.: 435293-66-6

Molecular Formula: $C_{17}H_{21}NO_2$

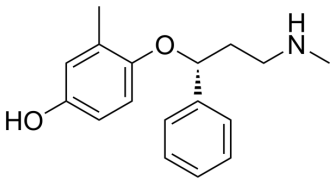
Molecular Weight: 271.35

Target: Adrenergic 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 : 125 mg/mL (460.66 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6853 mL	18.4264 mL	36.8528 mL
	5 mM	0.7371 mL	3.6853 mL	7.3706 mL
	10 mM	0.3685 mL	1.8426 mL	3.6853 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-Hydroxyatomoxetine is an active metabolite of Atomoxetine. 4-Hydroxyatomoxetine is metabolized by the enzyme cytochrome P450 2D6 (CYP2D6). Atomoxetine hydrochloride is a potent and selective noradrenalin re-uptake inhibitor (K_i values are 5 nM, 77 nM and 1451 nM for inhibition of radioligand binding to human NET, SERT and DAT respectively)[1][2].

REFERENCES

[1]. JT Brown, Single Dose Pharmacokinetics of Atomoxetine in Children.

[2]. Bymaster FP, Katner JS, Nelson DL et al. Atomoxetine increases extracellular levels of norepinephrine and dopamine in prefrontal cortex of rat: a potential mechanism for efficacy in attention deficit/hyperactivity disorder. Neuropsychopharmacology. 2002 Nov;27(5):699-711.

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

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