(R)-Preclamol

Cat. No.: HY-145454

CAS No.: 85976-54-1

Molecular Formula: $C_{14}H_{21}NO$

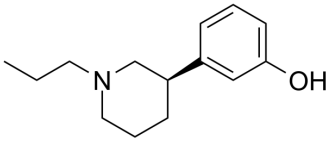
Molecular Weight: 219.32

Target: Dopamine 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 : 100 mg/mL (455.95 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.5595 mL	22.7977 mL	45.5955 mL
5 mM	0.9119 mL	4.5595 mL	9.1191 mL
10 mM	0.4560 mL	2.2798 mL	4.5595 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 (11.40 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-Preclamol is a dopamine (DA) agonist with autoreceptor as well as postsynaptic receptor stimulatory properties. (R)-Preclamol inhibits the locomotor activity of mice and rats in low doses[1].

IC_{50} & Target

dopamine[1]

REFERENCES

[1]. Hjorth S, et al. Central dopamine receptor agonist and antagonist actions of the enantiomers of 3-PPP.

[2]. Arnt J, et al. Dopamine receptor agonistic and antagonistic effects of 3-PPP enantiomers. Psychopharmacology (Berl). 1983;81(3):199-207.

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