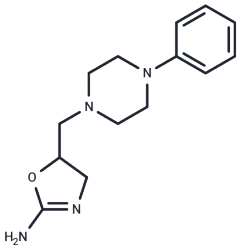
Data Sheet (Cat.No.T28419)

TargetMol

Pipoxazole

Chemical Properties



CAS No. : 91595-86-7

Formula: C14H20N4O

Molecular Weight: 260.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pipoxazole (COR-32-24) is an adrenergic receptor agonist that can be used to study depression.
Targets(IC50)	Adrenergic Receptor
In vivo	Fixed small doses of radiolabeled COR3224 (14C)COR3224, 0.06 pM) were used for brain uptake assessment in rats and different concentrations of unlabeled COR3224 (5, 10, 20, and 40 μM) were added to the injection mixture by rapid intracarotid injection technique, COR3224 showed concentration-dependent brain uptake properties, indicating the existence of a carrier-mediated transport mechanism for carrier-mediated transport mechanism across the blood-brain barrier (BBB). The brain uptake index (BUI) of labeled COR3224 gradually decreased from 10.15% to approximately 5.4% as the concentration of unlabeled COR3224 increased. [1];Adult male rats (250-300gr, Sprague Dawley) were orally administered 10, 40, and 160 mg/kg radiolabeled 14C-COR3224 (30 microCi/kg) in aqueous solution and after 0.25; 0.5; 0.75; 1; 2; 4; 6; 8; 12; 16; 24; and 30 hr (5 doses of rats per session) when sacrificed. A linear relationship was found between AUC and the doses used for TR and UP plasma assays. In contrast, brain AUC for TR and U.P was not proportional to dose, and the evolution of brain/plasma concentration ratios showed higher values for the 10 mg/kg dose than for the 40 and 160 mg/kg doses. [4]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8413 mL	19.2064 mL	38.4128 mL
5 mM	0.7683 mL	3.8413 mL	7.6826 mL
10 mM	0.3841 mL	1.9206 mL	3.8413 mL
50 mM	0.0768 mL	0.3841 mL	0.7683 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Damaj MI, et al. In vivo evidence for carrier-mediated brain uptake of a new 2-amino-2-oxazoline (COR3224) via the purine transport system in rat. Brain Res. 1991 Jul 19;554(1-2):333-5.
Damaj MI, et al.Determination of a new 2-amino-2-oxazoline (COR 3224) in plasma and brain tissue of the rat by high-performance liquid chromatography with electrochemical detection. J Chromatogr. 1991 Feb 15;563(2):476-9.
Neau B, et al.COR3224--a new antidepressant: pharmacokinetics and metabolism in rat. Eur J Drug Metab Pharmacokinet. 1991;Spec No 3:77-9.
Damaj MI, et al. Kinetics and brain uptake of COR3224, a new 2-amino-2-oxazoline, in rats. Eur J Drug Metab Pharmacokinet. 1991;Spec No 3:52-6.

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