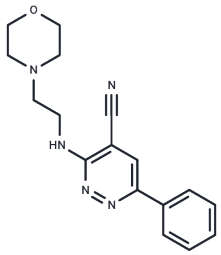
Data Sheet (Cat.No.T67789)

TargetMol

Bazinaprine

Chemical Properties



CAS No. : 94011-82-2

Formula: C17H19N5O

Molecular Weight: 309.37

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	Bazinaprine is a selective, reversible monoamine oxidase inhibitor (MAOI) that is a candidate compound for the treatment of depression. Bazinaprine showed strong inhibitory effect on type A monoamine oxidase and weak inhibitory effect on type b monoamine oxidase. Bazinaprine is reversible in vivo, but not in vitro.
Targets(IC50)	MAO,Monoamine Oxidase
In vitro	Bazinaprine(SR 95191) inhibits MAO-A in a time-dependent manner in vitro and appears to be irreversible.[1] The inhibition of brain MAO-A, but not MAO-B, by SR 95191 was time dependent, with a 19-fold decrease in the IC50 values being observed over a 30-min incubation period (140 to 7.5 μM).[2]
In vivo	Bazinaprine (1-100 mg/kg, p.o.) antagonized, in a dose-dependent fashion, the irreversible inhibition of brain and liver MAO-A induced by phenelzine.[2]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (72.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2324 mL	16.1619 mL	32.3238 mL
5 mM	0.6465 mL	3.2324 mL	6.4648 mL
10 mM	0.3232 mL	1.6162 mL	3.2324 mL
50 mM	0.0646 mL	0.3232 mL	0.6465 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

Luque J M, et al. Radioautographic Evidence that the GABAA Receptor Antagonist SR 95531 is a Substrate Inhibitor of MAO-A in the Rat and Human Locus Coeruleus. European Journal of Neuroscience, 1994;6(6): 1038-1049.
Kan JP, et al. Monoamine oxidase-inhibiting properties of SR 95191, a new pyridazine derivative, in the rat: evidence for selective and reversible inhibition of monoamine oxidase type A in vivo but not in vitro. J Neurochem. 1988;50(4):1137-1144.