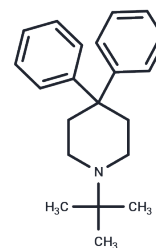


Budipine

Chemical Properties

CAS No. :	57982-78-2
Formula:	C ₂₁ H ₂₇ N
Molecular Weight:	293.45
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	Budipine is a low affinity, N-methyl-D-aspartate receptor antagonist, is an antiparkinsonian agent.
Targets(IC50)	Others, iGluR
In vitro	The primary action of budipine is an indirect dopaminergic effect as shown by facilitation of dopamine (DA) release, inhibition of monoamine oxidase type B (MAO-B) and of DA (re) up-take and stimulation of aromatic L-amino acid decarboxylase (AADC), which in sum might be responsible for enhancing the endogenous dopaminergic activity [1].

Solubility Information

Solubility	DMSO: 2.94 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.41 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4077 mL	17.0387 mL	34.0774 mL
5 mM	0.6815 mL	3.4077 mL	6.8155 mL
10 mM	0.3408 mL	1.7039 mL	3.4077 mL
50 mM	0.0682 mL	0.3408 mL	0.6815 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

Eltze M. Multiple mechanisms of action: the pharmacological profile of budipine. *J Neural Transm Suppl.* 1999;56: 83-105.

Parsons C G , Hartmann S , Spielmanns P . Budipine is a low affinity, N-methyl-D-aspartate receptor antagonist: Patch clamp studies in cultured striatal, hippocampal, cortical and superior colliculus neurones[J]. *Neuropharmacology*, 1998, 37(6):719-727.

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