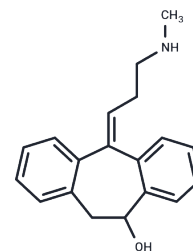


## (Z)-10-Hydroxynortriptyline

## Chemical Properties

CAS No. :	47132-19-4
Formula:	C19H21NO
Molecular Weight:	279.38
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	(Z)-10-Hydroxynortriptyline ((Z)-10-Hydroxy Nortriptyline) is an active metabolite of Nortriptyline, inhibiting norepinephrine uptake with antidepressant activity, useful for studying neurological disorders.
Targets(IC50)	Drug Metabolite
In vivo	(Z)-10-Hydroxynortriptyline(3.5-7 mg/kg, intravenously) causes pronounced bradycardia in pigs with reduced blood pressure and cardiac output. [1]

## Solubility Information

Solubility	DMSO: 40 mg/mL (143.17 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: 2 mg/mL (7.16 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

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	1mg	5mg	10mg
1 mM	3.5794 mL	17.8968 mL	35.7935 mL
5 mM	0.7159 mL	3.5794 mL	7.1587 mL
10 mM	0.3579 mL	1.7897 mL	3.5794 mL
50 mM	0.0716 mL	0.3579 mL	0.7159 mL

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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

- Pollock BG, et al. Comparative cardiotoxicity of nortriptyline and its isomeric 10-hydroxymetabolites. *Neuropsychopharmacology*. 1992 Jan;6(1):1-10.
- Pollock BG, et al. Comparative cardiotoxicity of nortriptyline and its isomeric 10-hydroxymetabolites. *Neuropsychopharmacology*. 1992 Jan;6(1):1-10.

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