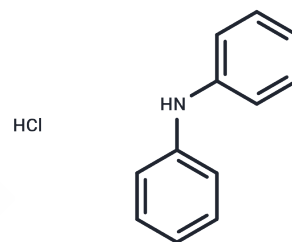


## Diphenylamine Hydrochloride

## Chemical Properties

CAS No. :	537-67-7
Formula:	C <sub>12</sub> H <sub>12</sub> ClN
Molecular Weight:	205.68
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	Diphenylamine hydrochloride, isolated from coriander, has antioxidant properties. In agriculture, it can be used as a fungicide and antibacterial agent; in industry, it can be used as an antioxidant and dye mordant.
Targets(IC50)	Others,Antibacterial,Antifungal

## Solubility Information

Solubility	DMSO: 50 mg/mL (243.1 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 (9.72 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	4.8619 mL	24.3096 mL	48.6192 mL
5 mM	0.9724 mL	4.8619 mL	9.7238 mL
10 mM	0.4862 mL	2.431 mL	4.8619 mL
50 mM	0.0972 mL	0.4862 mL	0.9724 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

Safe S , Hutzinger O , Crocker J F S , et al. Identification of toxic impurities in commercial Diphenylamine[J]. Bulletin of Environmental Contamination and Toxicology, 1977, 17(2):204-207.

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