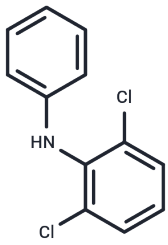
Data Sheet (Cat.No.T38240)

TargetMol

2,6-Dichlorodiphenylamine

Chemical Properties



CAS No. : 15307-93-4

Formula: C12H9Cl2N

Molecular Weight: 238.11

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	2,6-Dichlorodiphenylamine, an analogue of Diclofenac Sodium, exhibits anti-Candida albicans activity. Diclofenac Sodium, a potent and nonselective COX inhibitor, has IC50 values of 4 and 1.3 nM for human COX-1 and COX-2 in CHO cells. [1]. Makoto Urai, et al. Potent Drugs That Attenuate anti-Candida albicans Activity of Fluconazole and Their Possible Mechanisms of Action. J Infect Chemother. 2014 Oct;20(10):612-5.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 60 mg/mL (251.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (10.5 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1997 mL	20.9987 mL	41.9974 mL
5 mM	0.8399 mL	4.1997 mL	8.3995 mL
10 mM	0.420 mL	2.0999 mL	4.1997 mL
50 mM	0.084 mL	0.420 mL	0.8399 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

Makoto Urai,et al. Potent Drugs That Attenuate anti-Candida Albicans Activity of Fluconazole and Their Possible Mechanisms of Action. J Infect Chemother. 2014 Oct;20(10):612-5.

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