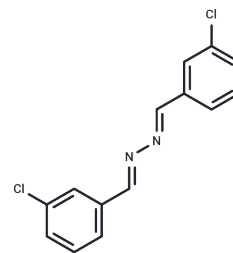


DCB

## Chemical Properties

CAS No. : 6971-97-7  
 Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>  
 Molecular Weight: 277.15  
 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	DCB (3,3'-dichlorobenzaldazine) is an allosteric ligand for mGluR5 and shows the negative modulatory effect of 3,3'-dimethoxybenzaldazine (DMeOB). DCB blocks the positive allosteric regulation of mGluRs with the help of 3,3'-difluorobenzaldazine (DFB).
Targets(IC50)	GluR

## Solubility Information

Solubility	Ethanol: < 27.71 mg/mL, Sonication is recommended. DMSO: 7.14 mg/mL (25.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6082 mL	18.0408 mL	36.0815 mL
5 mM	0.7216 mL	3.6082 mL	7.2163 mL
10 mM	0.3608 mL	1.8041 mL	3.6082 mL
50 mM	0.0722 mL	0.3608 mL	0.7216 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

O'Brien JA, et al. A family of highly selective allosteric modulators of the metabotropic glutamate receptor subtype 5. Mol Pharmacol. 2003; 64(3):731-40.

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