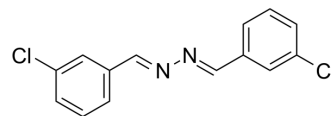


DCB

Cat. No.:	HY-103561		
CAS No.:	6971-97-7		
Molecular Formula:	C ₁₄ H ₁₀ Cl ₂ N ₂		
Molecular Weight:	277.15		
Target:	mGluR		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (90.20 mM); ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			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			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (4.51 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	DCB (3,3'-dichlorobenzaldazine) is a neutral allosteric modulator of the metabotropic glutamate receptor metabotropic glutamate receptor subtype 5 (mGluR5). DCB blocks the positive allosteric regulation of mGluRs (mGluR5) with the help of 3,3'-difluorobenzaldazine (DFB). DCB shows the negative modulatory effect of 3,3'-dimethoxybenzaldazine (DMeOB) ^[1] .
IC ₅₀ & Target	mGluR5

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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