

## Certificate of Analysis

**Product Name:** DCB

**Catalog No.:** 1952

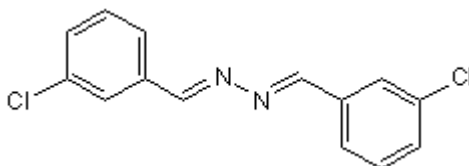
**Batch No.:** 1

CAS Number: 6971-97-7

IUPAC Name: [(3-Chlorophenyl)methylene]hydrazone-3-chlorobenzaldehyde

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>  
**Batch Molecular Weight:** 277.15  
**Physical Appearance:** Yellow solid  
**Solubility:** ethanol to 100 mM with gentle warming  
DMSO to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.55 (Ethyl acetate:Petroleum ether [1:3])  
**Melting Point:** Between 142 - 144°C  
**HPLC:** Shows >98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	60.67	3.64	10.11	25.58
Found	60.42	3.55	9.95	25.65

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Allosteric ligand for the metabotropic glutamate receptor mGlu<sub>5</sub>; displays neutral modulation. Does not affect agonist-stimulated mGlu<sub>5</sub> responses, but blocks regulation of the receptor by other allosteric modulators such as DFB (Cat. No. 1625) and DMeOB (Cat. No. 1953).

**Physical and Chemical Properties:**

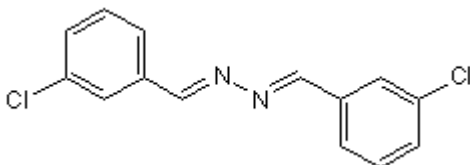
Batch Molecular Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>

Batch Molecular Weight: 277.15

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**O'Brien et al** (2003) A family of highly selective allosteric modulators of the metabotropic glutamate receptor subtype 5. *Mol.Pharmacol.* **64** 731. PMID: 12920211.

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

ethanol to 100 mM with gentle warming  
DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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