

Certificate of Analysis

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Product Name: DMeOB

Catalog No.: 1953

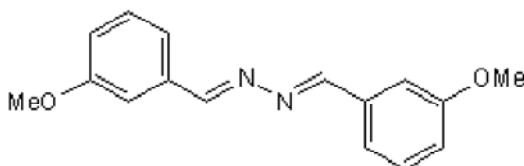
Batch No.: 1

CAS Number: 40252-74-2

IUPAC Name: [(3-Methoxyphenyl)methylene]hydrazone-3-methoxybenzaldehyde

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆N₂O₂
Batch Molecular Weight: 268.31
Physical Appearance: Yellow solid
Solubility: ethanol to 100 mM with gentle warming
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [2:3])
Melting Point: Between 76 - 78°C
HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.62	6.01	10.44
Found	71.55	6	10.42

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

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IUPAC Name: [(3-Methoxyphenyl)methylene]hydrazone-3-methoxybenzaldehyde

Description:

Negative allosteric modulator of the metabotropic glutamate receptor mGlu₅; displays reversible non-competitive inhibition of mGlu₅-mediated responses (IC₅₀ = 3 μM).

Physical and Chemical Properties:

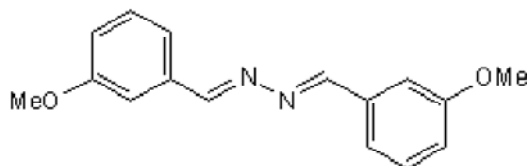
Batch Molecular Formula: C₁₆H₁₆N₂O₂

Batch Molecular Weight: 268.31

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store 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.

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.

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