

Product Name: C-DIM 12

Catalog No.: 5821

Batch No.: 1

CAS Number: 178946-89-9

IUPAC Name: 3,3'-[(4-Chlorophenyl)methylene]bis[1*H*-indole]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₇ClN₂·¼H₂O

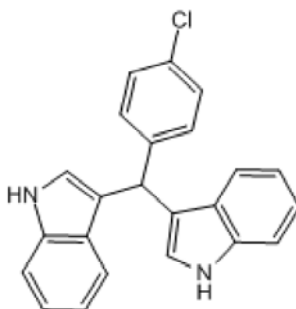
Batch Molecular Weight: 361.35

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Ethyl acetate:Petroleum ether [1:4])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.45	4.88	7.75
Found	76.79	4.79	7.79

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

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Description:

Nurr1 activator. Inhibits NF-κB and cytokine expression in microglial cells by stabilizing nuclear corepressor proteins, which reduces binding of p65 to inflammatory gene promoters. Neuroprotective in a mouse Parkinson's disease model. Orally bioavailable.

Physical and Chemical Properties:

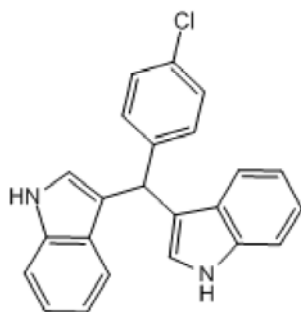
Batch Molecular Formula: C₂₃H₁₇ClN₂·¼H₂O

Batch Molecular Weight: 361.35

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

De Miranda *et al* (2015) The Nurr1 activator 1,1-Bis(3'-indolyl)-1-(*p*-chlorophenyl)methane blocks inflammatory gene expression in BV-2 microglial cells by inhibiting nuclear factor κB. *Mol Pharmacol.* **87** 1021. PMID: 25858541.

De Miranda *et al* (2013) Neuroprotective efficacy and pharmacokinetic behavior of novel anti-inflammatory *para*-phenyl substituted diindolylmethanes in a mouse model of Parkinson's disease. *J.Pharmacol.Exp.Ther.* **345** 125. PMID: 23318470.

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North America

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Tel:+1 612 379 2956