

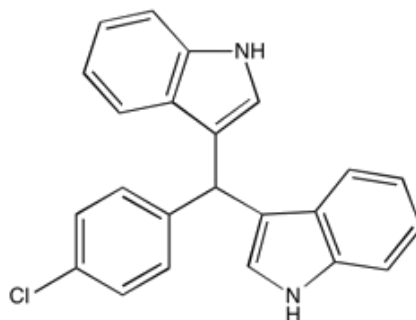
Catalog # 10-3280

C-DIM 12

CAS# 178946-89-9

3,3'-[(4-Chlorophenyl)methylene]bis[1H-indole]

Lot # X107555



Activates the orphan nuclear receptor Nurr1 and inhibits bladder cancer growth.^{1,2} Nurr1 is a suppressor of NFκB-related neuroinflammatory genes in microglia and astrocytes and C-DIM 12 suppresses inflammatory signaling in these cells.³ Displays neuroprotective activity in a mouse model of progressive neurodegeneration with a strong neuroinflammatory component (50 mg/Kg, oral).⁴

- 1) Inamoto *et al.* (2008), *1,1-Bis(3'-indolyl)-1-(p-chlorophenyl)methane activates the orphan nuclear receptor Nurr1 and inhibits bladder cancer growth*; *Mol Cancer Ther.*, **7** 3825
- 2) Li *et al.* (2012), *Structure-dependent activation of NR4A2 (Nurr1) by 1,1-bis(3'-indolyl)-1-(aromatic)methane analogs in pancreatic cancer cells*; *Biochem. Pharmacol.*, **83** 1445
- 3) 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
- 4) 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

PHYSICAL DATA

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight: | 356.85 |
| Molecular Formula: | C ₂₃ H ₁₇ ClN ₂ |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 35 mg/ml) or Ethanol (up to 35 mg/ml) |
| Physical Description: | Orange solid |
| Storage and Stability: | Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months. |

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