

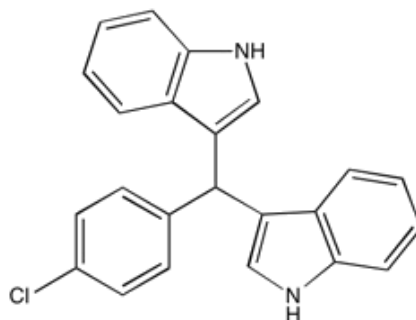
Catalog # 10-3280

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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.