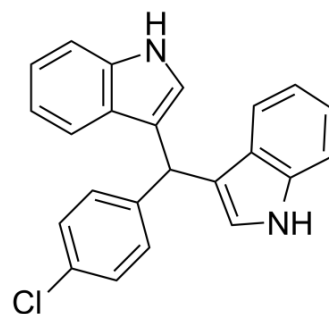


C-DIM12

Cat. No.:	HY-19808		
CAS No.:	178946-89-9		
Molecular Formula:	C ₂₃ H ₁₇ ClN ₂		
Molecular Weight:	356.85		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (280.23 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.8023 mL	14.0115 mL	28.0230 mL
	5 mM		0.5605 mL	2.8023 mL	5.6046 mL
	10 mM		0.2802 mL	1.4011 mL	2.8023 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

C-DIM12 is a synthetic Nurr1 activator induces Nurr1 and DA gene expression in cell lines and primary neurons. Target: Nurr1 in vitro: C-DIM12 as a modulator of Nurr1 activity that results in inhibition of NF-κB-dependent gene expression in glial cells by stabilizing nuclear corepressor proteins, which reduces binding of p65 to inflammatory gene promoters. C-DIM12 Decreases Inflammatory Gene Expression in BV-2 Microglia. C-DIM12 Decreases Expression of NF-κB-Enhanced GFP Expression in Human Embryonic Kidney 293 Reporter Cells.[1] C-DIM12 increases protein levels of exogenously expressed human Nurr1 in transfected neurons. C-DIM12 protects neurons from 6-hydroxydopamine toxicity. [2]

REFERENCES

[1]. De Miranda BR, et al. 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. 2015 Jun;87(6):1021-34. doi: 10.1124/mol.114.095398. Epub 2015 Apr 9.

[2]. Hammond SL, et al. A novel synthetic activator of Nurr1 induces dopaminergic gene expression and protects against 6-hydroxydopamine neurotoxicity in vitro. *Neurosci Lett.* 2015 Oct 21;607:83-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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