Product Data Sheet

Product Name: C-DIM12
Cat. No.: GC19095

Chemical Properties

Cas. No.	178946-89-9		
SMILES	ClC1=CC=C(C(C2=CNC3=C2C=CC=C3)C4=CNC5=C4C=CC=C5)C=C1		
Formula	$C_{23}H_{17}ClN_2$	M.Wt	356.85
Solubility	DMSO : ≥ 100 mg/mL (280.23 mM);Water : < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	C-DIM12		

Background

C-DIM12 is a synthetic Nurr1 activaor induces Nurr1 and DA gene expression in cell lines and primary neurons.Target: Nurr1in 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
[2]. Hammond SL, et al. A novel synthetic activator of Nurr1 induces dopaminergic gene

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expression and protects against 6-hydroxydopamine neurotoxicity in vitro. Neurosci Lett. 2015 Oct 21;607:83-9.

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