

Nurr1 agonist 12

Chemical Properties

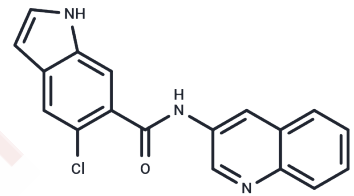
CAS No. :

Formula: C₁₈H₁₂ClN₃O

Molecular Weight: 321.76

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Nurr1 agonist 12 (Compound 37) acts as an agonist of the nuclear receptor-related protein 1 (Nurr1), enhancing its transcriptional activity with an EC ₅₀ of 0.06 μM. It stimulates human response elements NBRE, NurRE, and DR5 with EC ₅₀ values of 0.07 μM, 0.027 μM, and 0.014 μM, respectively. Additionally, Nurr1 agonist 12 induces the expression of neurotrophic genes regulated by Nurr1, such as tyrosine hydroxylase (TH), SOD1/2, BDNF, Sestrin 3, and BIRC5 (Survivin). The compound also demonstrates neuroprotective effects against neurotoxicity caused by Paraquat.
Targets(IC50)	NR4A

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1079 mL	15.5395 mL	31.0791 mL
5 mM	0.6216 mL	3.1079 mL	6.2158 mL
10 mM	0.3108 mL	1.554 mL	3.1079 mL
50 mM	0.0622 mL	0.3108 mL	0.6216 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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