Data Sheet (Cat.No.T78049)

TargetMol

Nurr1 inverse agonist-1

Chemical Properties

CAS No. : 2758673-07-1

Formula: C16H14N2O2

Molecular Weight: 266.29

Storage: Store at low temperature
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 inverse agonist-1 is a indole-based inverse agonist targeting the neuroprotective transcription factor Nurr1, which plays a pivotal role in dopaminergic neuron regulation. Nurr1 inverse agonist-1 decreases the receptor's intrinsic transcriptional activity by up to more than 90% and revealed preference for inhibiting Nurr1 monomer activity. Nurr1 inverse agonist-1 enables the mechanistic study of Nurr1-mediated gene repression and the exploration of its potential implications in neurodegenerative disorders such as Parkinson's disease.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (300.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7553 mL	18.7765 mL	37.553 mL
5 mM	0.7511 mL	3.7553 mL	7.5106 mL
10 mM	0.3755 mL	1.8777 mL	3.7553 mL
50 mM	0.0751 mL	0.3755 mL	0.7511 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.

Reference

Zaienne D, et al. Development and Profiling of Inverse Agonist Tools for the Neuroprotective Transcription Factor Nurr1. J Med Chem. 2021 Oct 28;64(20):15126-15140.

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