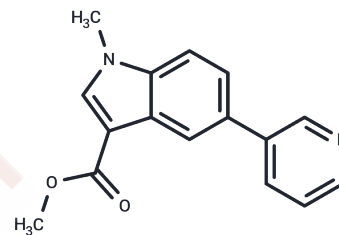


## Nurr1 inverse agonist-1

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 2758673-07-1   |
| Formula:          | C <sub>16</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>  |
| Molecular Weight: | 266.29   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## 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.<br>(< 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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