

HUP-55

Chemical Properties

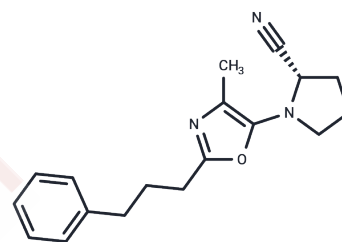
CAS No. :

Formula: C₁₈H₂₁N₃O

Molecular Weight: 295.38

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

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| Description | HUP-55 is a prolyl endopeptidase inhibitor with an IC ₅₀ of 5 nM, shown to mitigate α -synuclein dimerization in Neuro2a cells, stimulate autophagy in HEK293 cells, and lower hydrogen peroxide-evoked reactive oxygen species (ROS) production in SH-SY5Y cells at a 10 μ M concentration. Additionally, administration of HUP-55 at a dosage of 10 mg/kg reduces ipsilateral paw use and diminishes striatal oligomeric α -synuclein concentrations in a Parkinson's disease mouse model, which is induced through adenoviral vector-mediated overexpression of α -synuclein (AAV- α Syn). |
| Targets(IC ₅₀) | Others |

Solubility Information

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|------------|--|
| Solubility | Acetonitrile: 10 mg/mL (33.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.3855 mL | 16.9273 mL | 33.8547 mL |
| 5 mM | 0.6771 mL | 3.3855 mL | 6.7709 mL |
| 10 mM | 0.3385 mL | 1.6927 mL | 3.3855 mL |
| 50 mM | 0.0677 mL | 0.3385 mL | 0.6771 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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