

NCGC 607

Chemical Properties

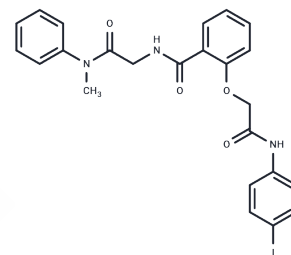
CAS No. : 1462267-07-7

Formula: C₂₄H₂₂IN₃O₄

Molecular Weight: 543.35

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	NCGC 607 is a noninhibitory chaperone of glucocerebrosidase (GCase).
Targets(IC50)	Others, Glucosidase, glycosidase
In vitro	NCGC607, a small-molecule noninhibitory chaperone of glucocerebrosidase identified by high-throughput screening and medicinal chemistry structure optimization. This compound successfully chaperoned the mutant enzyme, restored glucocerebrosidase activity and protein levels, and reduced glycolipid storage in both iPSC-derived macrophages and dopaminergic neurons, indicating its potential for treating neuronopathic Gaucher disease. In addition, NCGC607 reduced α -synuclein levels in dopaminergic neurons from the patients with parkinsonism, suggesting that noninhibitory small-molecule chaperones of glucocerebrosidase may prove useful for the treatment of Parkinson disease.

Solubility Information

Solubility	DMSO: 55 mg/mL (101.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8404 mL	9.2022 mL	18.4043 mL
5 mM	0.3681 mL	1.8404 mL	3.6809 mL
10 mM	0.184 mL	0.9202 mL	1.8404 mL
50 mM	0.0368 mL	0.184 mL	0.3681 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

Aflaki E , Borger D K , Moaven N , et al. A New Glucocerebrosidase Chaperone Reduces α -Synuclein and Glycolipid Levels in iPSC-Derived Dopaminergic Neurons from Patients with Gaucher Disease and Parkinsonism[J]. Journal of Neuroscience the Official Journal of the Society for Neuroscience, 2016, 36(28):7441.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481