

Product Data Sheet

Product Name: NCGC607

Cat. No.: GC44335

Chemical Properties

Cas. No. 1462267-07-7

SMILES CN(C(CNC(C1=CC=CC=C1OCC(=O)NC2=CC=C(I)C=C2)=O)=O)=O)C3=CC=CC=C3

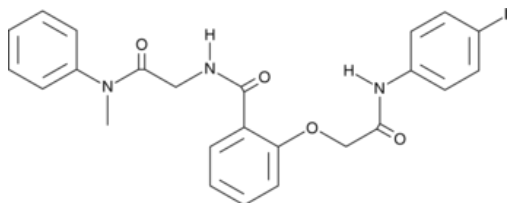
Formula C₂₄H₂₂IN₃O₄ M.Wt 543.4

Solubility DMF: 30 mg/mL, DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL, DMSO: 25 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

NCGC607 is a salicylic acid derivative and small molecule glucocerebrosidase (GCase) chaperone. A mutation in the GCase gene is found in patients with Gaucher disease and is the most common genetic risk factor for Parkinson's disease. In induced pluripotent stem cell-derived (iPSC) macrophages from patients with Gaucher disease, NCGC607 (3 μM) restores protein levels of GCase, translocates it to the lysosome, and decreases lysosomal levels of the glycolipid glucosylceramide. In iPSC-derived cells differentiated into dopamine neurons (iDA), NCGC607 increases GCase activity and translocation to the lysosome, where it decreases glucosylceramide as well as glucosylsphingosine levels. It also rescues decreased α-synuclein levels in iDA neurons.

Caution: Product has not been fully validated for medical applications. For research use only.

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