

Gcase activator 2

Chemical Properties

CAS No. : 2759897-35-1

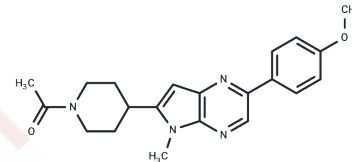
Formula: C₂₁H₂₄N₄O₂

Molecular Weight: 364.44

Store at low temperature

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	Gcase activator 2 is a β -glucocerebrosidase activator that induces dimerization of GCase at the endoplasmic reticulum (ER) and lysosomal pHs, increases lysosomal substrate metabolism, and has therapeutic potential for the treatment of Parkinson's and Alzheimer's diseases.
Targets(IC50)	Glucokinase, Glucosidase, glycosidase
In vitro	Gcase activator 2 exhibits a low metabolic clearance rate in both humans and mice, with CL values of 10 and 12 μ L/min/mg, respectively [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (219.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.05 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7439 mL	13.7197 mL	27.4394 mL
5 mM	0.5488 mL	2.7439 mL	5.4879 mL
10 mM	0.2744 mL	1.372 mL	2.7439 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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

Benz J, et al. Novel β -Glucocerebrosidase Activators That Bind to a New Pocket at a Dimer Interface and Induce Dimerization. *Angew Chem Int Ed Engl.* 2021 Mar 1;60(10):5436-5442.

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