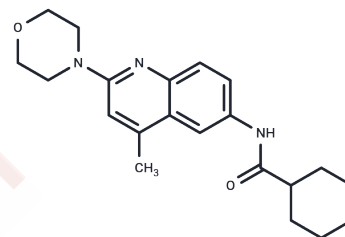


NCGC00092410

## Chemical Properties

CAS No. : 442898-34-2  
 Formula: C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 353.46  
 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	NCGC00092410 (ML008) is a glucocerebrosidase (GC) inhibitor with IC <sub>50</sub> value of 31 nM. It can be used for the study of Gaucher disease caused by mutation of glucocerebrase gene.
Targets(IC <sub>50</sub> )	Glucosidase, glycosidase
In vitro	NCGC00092410 increased GC activity in N370S mutant fibroblasts. Treatment of Gaucher's fibroblasts with 40 μM NCGC00092410 for 10-70 h increased the lysosomal content of GC in Gaucher's fibroblasts. NCGC00092410 inhibited GC activity with different substrate concentrations in a dose-dependent manner. [1].

## Solubility Information

Solubility	DMSO: 5.33 mg/mL (15.08 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	2.8292 mL	14.1459 mL	28.2917 mL
5 mM	0.5658 mL	2.8292 mL	5.6583 mL
10 mM	0.2829 mL	1.4146 mL	2.8292 mL
50 mM	0.0566 mL	0.2829 mL	0.5658 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

Zheng W, et, al. Three classes of glucocerebrosidase inhibitors identified by quantitative high-throughput screening are chaperone leads for Gaucher disease. Proc Natl Acad Sci U S A. 2007 Aug 7;104(32):13192-7.

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