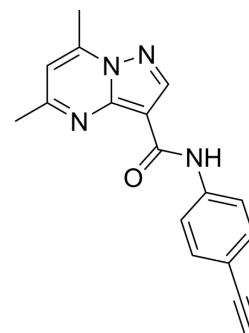


## ML198

Cat. No.:	HY-117861		
CAS No.:	1380716-06-2		
Molecular Formula:	C <sub>17</sub> H <sub>14</sub> N <sub>4</sub> O		
Molecular Weight:	290.32		
Target:	Glycosidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 5 mg/mL (17.22 mM; ultrasonic and warming and adjust pH to 2 with HCl and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.4445 mL	17.2224 mL	34.4447 mL
5 mM	0.6889 mL	3.4445 mL	6.8889 mL
10 mM	0.3444 mL	1.7222 mL	3.4445 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

ML198 is a glucocerebrosidase (GCase) modulator with an EC<sub>50</sub> of 0.4 μM. ML198 is an activator and non-inhibitory chaperone of glucocerebrosidase. ML198 can be used for the research of Gaucher disease<sup>[1]</sup>. ML198 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

#### IC<sub>50</sub> & Target

EC<sub>50</sub>: 0.4 μM (glucocerebrosidase)<sup>[1]</sup>

#### In Vitro

ML198 is stable in D-PBS pH 7.4 at room temperature over 48 hr<sup>[1]</sup>.  
 ML198 increases translocation of GCase to the lysosome (20% cell translocation at 5 μM, compared to 5% of DMSO) in human fibroblasts<sup>[1]</sup>.  
 ML198 shows promising microsomal stability and Caco-2 permeability, with low water solubility<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Steven Rogers, et al. Discovery, SAR, and Biological Evaluation of Non-inhibitory Chaperones of Glucocerebrosidase.

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

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