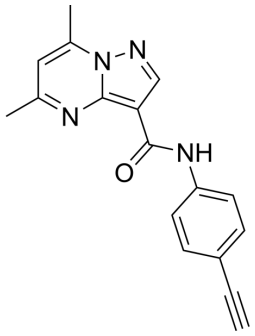
ML198

Cat. No.:	HY-117861
CAS No.:	1380716-06-2
Molecular Formula:	$C_{17}H_{14}N_4O$
Molecular Weight:	290.32
Target:	Glucosidase
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)

Preparing Stock Solutions	Solvent / Mass / Concentration	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_{50} of 0.4 μM. ML198 is an activator and non-inhibitory chaperone of glucocerebrosidase. ML198 can be used for the research of Gaucher disease[1]. 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_{50} & Target

EC_{50}: 0.4 μM (glucocerebrosidase)[1]

In Vitro

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

REFERENCES

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

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