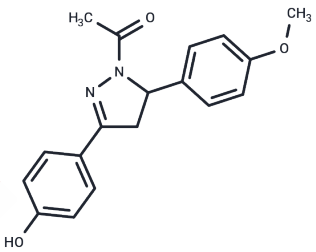
Data Sheet (Cat.No.T63750)

TargetMol

α-Amylase-IN-1

Chemical Properties



CAS No. : 148404-10-8

Formula: C18H18N2O3

Molecular Weight: 310.35

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	α-Amylase-IN-1 is an α-Amylase inhibitor (IC50: 0.5509 μM). α-Amylase-IN-1 has antioxidant activity with an IC50 value of 53.49 μM for scavenging of DPPH free radicals, and can be used in the study of diabetes and oxidative stress-related diseases.
Targets(IC50)	Antioxidant,Amylase

Solubility Information

Solubility	DMSO: 50 mg/mL (161.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2222 mL	16.1108 mL	32.2217 mL
5 mM	0.6444 mL	3.2222 mL	6.4443 mL
10 mM	0.3222 mL	1.6111 mL	3.2222 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Ali A, et al. Dihydropyrazole Derivatives Act as Potent α-Amylase Inhibitors and Free Radical Scavengers: Synthesis, Bioactivity Evaluation, Structure-Activity Relationship, ADMET, and Molecular Docking Studies. ACS Omega. 2023;8(23):20412-20422.

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