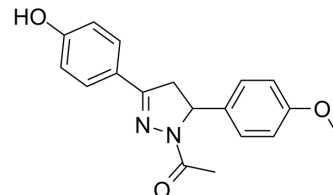


## $\alpha$ -Amylase-IN-1

Cat. No.:	HY-149313
CAS No.:	148404-10-8
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	310.35
Target:	Amylases
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	$\alpha$ Amylase-IN-1 (Compound 11) is an $\alpha$ -Amylase inhibitor with an IC <sub>50</sub> value of 0.5509 $\mu$ M. $\alpha$ Amylase-IN-1 has antioxidant activity with an IC <sub>50</sub> value of 53.49 $\mu$ M for scavenging DPPH free radicals. IC <sub>50</sub> can be used in the study of diabetes and oxidative stress-related diseases. <sup>[1]</sup>
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.5509 $\mu$ M ( $\alpha$ -Amylase), 53.49 $\mu$ M (DPPH)

### REFERENCES

[1]. Ali A, et al. Dihydropyrazole Derivatives Act as Potent  $\alpha$ -Amylase Inhibitors and Free Radical Scavengers: Synthesis, Bioactivity Evaluation, Structure-Activity Relationship, ADMET, and Molecular Docking Studies. ACS Omega. 2023 Jun 2;8(23):20412-20422.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA