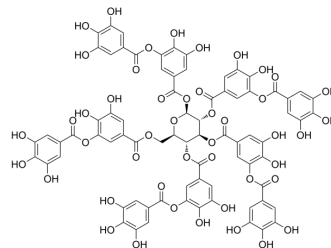


Chinese gallotannin

Cat. No.:	HY-135530
CAS No.:	5424-20-4
Molecular Formula:	C ₇₆ H ₅₂ O ₄₆
Molecular Weight:	1701.2
Target:	Amylases
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chinese gallotannin is a non-specific promiscuous α -amylase inhibitor with a K_i of 0.82 $\mu\text{g/mL}$ for human salivary α -amylase. Chinese gallotannin can be used for the research of diabetes ^[1] .
IC ₅₀ & Target	Ki: 0.82 $\mu\text{g/mL}$ (Human Salivary α -Amylase) ^[1] IC50: 2.3 $\mu\text{g/mL}$ (Porcine Pancreatic α -Amylase), 128.9 nM (Telomerase), 3.0 μM (Fatty acid synthase), 6.9 μM (α -Ketoglutarate-Dependent Dioxygenase AlkB), 7.8 μM (5 α -Reductase), 24.2 μM (Poly(ADP-ribose) Glycohydrolase) ^[1]

REFERENCES

[1]. Szabó K, et al. Gallotannins are non-specific inhibitors of α -amylase: Aggregates are the active species taking part in inhibition. Chem Biol Drug Des. 2021 Feb;97(2):349-357.

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

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