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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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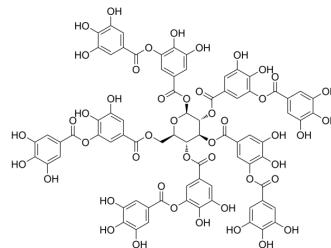
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Chinese gallotannin

| | | | |
|---------------------------|-------------------------------------------------|-------|----------|
| 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: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (58.78 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|-----------|-----------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 0.5878 mL | 2.9391 mL | 5.8782 mL |
| 5 mM | 0.1176 mL | 0.5878 mL | 1.1756 mL |
| 10 mM | 0.0588 mL | 0.2939 mL | 0.5878 mL |

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

BIOLOGICAL ACTIVITY

Description

Chinese gallotannin is a non-specific promiscuous α -amylase inhibitor with a K_i of 0.82 μ g/mL for human salivary α -amylase. Chinese gallotannin can be used for the research of diabetes^[1].

IC₅₀ & Target

Ki: 0.82 μ g/mL (Human Salivary α -Amylase)^[1]
 IC₅₀: 2.3 μ g/mL (Porcine Pancreatic α -Amylase), 128.9 nM (Telomerase), 3.0 μ M (Fatty acid synthase), 6.9 μ M (α -Ketoglutarate-Dependent Dioxygenase AlkB), 7.8 μ M (5 α -Reductase), 24.2 μ M (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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