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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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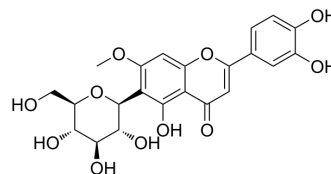
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Swertiajaponin

| | |
|---------------------------|--|
| Cat. No.: | HY-N2204 |
| CAS No.: | 6980-25-2 |
| Molecular Formula: | C ₂₂ H ₂₂ O ₁₁ |
| Molecular Weight: | 462.4 |
| Target: | Tyrosinase |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (540.66 mM; Need ultrasonic)

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 2.1626 mL | 10.8131 mL | 21.6263 mL |
| | 5 mM | 0.4325 mL | 2.1626 mL | 4.3253 mL |
| | 10 mM | 0.2163 mL | 1.0813 mL | 2.1626 mL |

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

BIOLOGICAL ACTIVITY

Description

Swertiajaponin is a tyrosinase inhibitor, forms multiple hydrogen bonds and hydrophobic interactions with the binding pocket of tyrosinase, with an IC₅₀ of 43.47 μM. Swertiajaponin also inhibits oxidative stress-mediated MAPK/MITF signaling, leading to decrease in tyrosinase protein level. Swertiajaponin suppresses melanin accumulation and exhibits strong anti-oxidative activity^[1].

IC₅₀ & Target

IC₅₀: 43.47 μM (tyrosinase)^[1]

REFERENCES

[1]. Lee B, et al. Swertiajaponin inhibits skin pigmentation by dual mechanisms to suppress tyrosinase. *Oncotarget*. 2017 Sep 15;8(56):95530-95541.

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

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