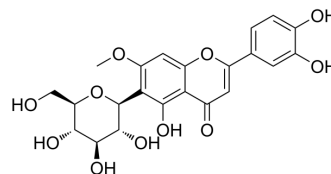


Swertiajaponin

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.

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