
Product Data Sheet

Product Name: Swertiajaponin

Cat. No.: GC37707

Chemical Properties

Cas. No. 6980-25-2

SMILES O=C1C=C(C2=CC=C(O)C(O)=C2)OC3=CC(OC)=C([C@H]4[C@@H]([C@H]([C@@H]([C@@H](CO)O4)O)O)O)C(O)=C13Formula C₂₂H₂₂O₁₁

M.Wt 462.4

Solubility DMSO : 250 mg/mL (540.66 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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: 43.47 μM (tyrosinase)[1]

[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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