Calceolarioside B

Cat. No.: HY-N0539

CAS No.: 105471-98-5

Molecular Formula: $C_{23}H_{26}O_{11}$

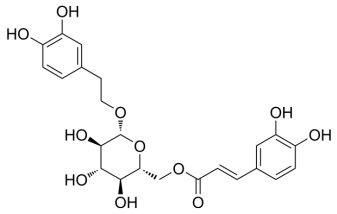
Molecular Weight: 478.45

Target: Aldose Reductase

Pathway: Metabolic Enzyme/Protease

Storage: -20°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 (522.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0901 mL	10.4504 mL	20.9008 mL
	5 mM	0.4180 mL	2.0901 mL	4.1802 mL
	10 mM	0.2090 mL	1.0450 mL	2.0901 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Calceolarioside B is a natural product isolated from Akebia quinata leaves. Calceolarioside B exhibits significant inhibitory activity against rat lens aldose reductase (RLAR) with an IC_{50} of 23.99 μM. Calceolarioside B displays inhibitory effect on DPPH radical scavenging activity with an IC_{50} of 94.60 μM [1].

REFERENCES

[1]. Hwang SH, et al. Inhibitory Activities of Stauntonia hexaphylla Leaf Constituents on Rat Lens Aldose Reductase and Formation of Advanced Glycation End Products and

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