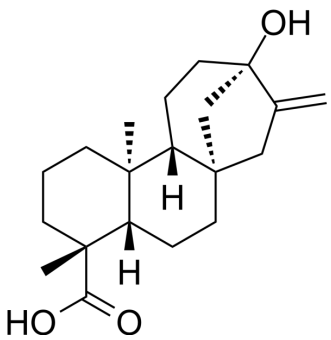
Steviol

Cat. No.:	HY-N2057
CAS No.:	471-80-7
Molecular Formula:	$C_{20}H_{30}O_3$
Molecular Weight:	318.45
Target:	Aquaporin
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (314.02 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1402 mL	15.7011 mL	31.4021 mL
	5 mM	0.6280 mL	3.1402 mL	6.2804 mL
	10 mM	0.3140 mL	1.5701 mL	3.1402 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: ≥ 2.5 mg/mL (7.85 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.85 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Steviol is a major metabolite of the sweetening compound stevioside. Steviol slows renal cyst growth by reducing AQP2 expression and promoting AQP2 degradation[1].

REFERENCES

[1]. Noitem R, et al. Steviol slows renal cyst growth by reducing AQP2 expression and promoting AQP2 degradation. Biomed Pharmacother. 2018 May;101:754-762.

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