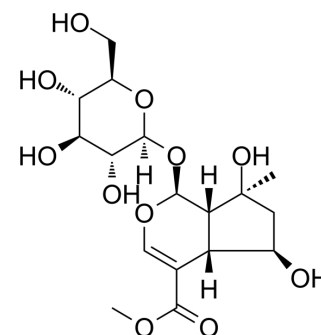


Shanzhiside methyl ester

Cat. No.:	HY-N0630
CAS No.:	64421-28-9
Molecular Formula:	C ₁₇ H ₂₆ O ₁₁
Molecular Weight:	406.38
Target:	GCCR
Pathway:	GPCR/G Protein
Storage:	-20°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 (246.08 mM; Need ultrasonic)
H₂O : 50 mg/mL (123.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.4608 mL	12.3038 mL	24.6075 mL
	5 mM		0.4922 mL	2.4608 mL	4.9215 mL
	10 mM		0.2461 mL	1.2304 mL	2.4608 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (123.04 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Shanzhiside methyl ester is isolated from *lamioplomis rotata*. Shanzhiside methyl ester is a small molecule glucagon-like peptide-1 (GLP-1) receptor agonist and has the ability to induce anti-allodynic tolerance^[1].

IC₅₀ & Target

IC₅₀: GLP-1 receptor^[1]

In Vivo

Shanzhiside methyl ester exerts dose-dependent and long-lasting (>4 h) anti-allodynic effects in spinal nerve injury-induced

neuropathic rats, with a maximal inhibition of 49% and a projected ED₅₀ of 40.4 µg^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fan H, et al. Shanzhiside methylester, the principle effective iridoid glycoside from the analgesic herb *Lamiophlomis rotata*, reduces neuropathic pain by stimulating spinal microglial β-endorphin expression. *Neuropharmacology*. 2016 Feb;101:98-109.

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

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