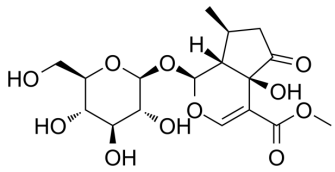
Hastatoside

Cat. No.:	HY-N2015
CAS No.:	50816-24-5
Molecular Formula:	$C_{17}H_{24}O_{11}$
Molecular Weight:	404.37
Target:	Others
Pathway:	Others
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 (247.30 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4730 mL	12.3649 mL	24.7298 mL
	5 mM	0.4946 mL	2.4730 mL	4.9460 mL
	10 mM	0.2473 mL	1.2365 mL	2.4730 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 (6.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.18 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Hastatoside is an iridoid glycoside that is isolated from Verbena officinalis and has a role in promoting sleep[1].

In Vivo

Hastatoside (0.32-0.64 mmol/kg; oral administration; for 9 hours; male rats of the Sprague-Dawley strain) treatment increases the total time of non-rapid eye movement sleep during a 9-h period, with a lag time of about 3-5 h after the administration at 20. 00 hours (lights-off time). Hastatoside also increases the delta activity during non-rapid eye movement sleep[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male rats of the Sprague-Dawley strain (8 weeks old; 260-280 g)[1]
Dosage:	0.32 mmol/kg, 0.48 mmol/kg, 0.64 mmol/kg
Administration:	Oral administration; for 9 hours
Result:	Increased the total time of non-rapid eye movement sleep during a 9-h period, with a lag time of about 3-5 h after the administration at 20. 00 hours (lights-off time). Also increased the delta activity during non-rapid eye movement sleep.

REFERENCES

[1]. uki MAKINO, et al. Hastatoside and verbenalin are sleep-promoting

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

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