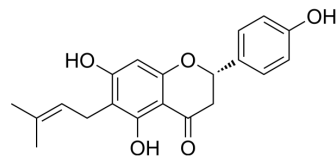


(2S)-6-Prenylnaringenin

Cat. No.:	HY-107198
CAS No.:	68236-13-5
Molecular Formula:	C ₂₀ H ₂₀ O ₅
Molecular Weight:	340
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
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 (294.12 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.9412 mL	14.7059 mL	29.4118 mL
				5 mM	0.5882 mL	2.9412 mL	5.8824 mL
				10 mM	0.2941 mL	1.4706 mL	2.9412 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 (7.35 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.35 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.35 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	(2S)-6-Prenylnaringenin is the most efficient compound in forebrain. (2S)-6-Prenylnaringenin acts as a GABA _A positive allosteric modulator at α+β- binding interface ^[1] .
In Vitro	(2S)-6-Prenylnaringenin (6-Prenylnaringenin) displays a modulatory activity at low micromolar concentrations. (2S)-6-Prenylnaringenin potentiates GABA-induced displacement of [³ H]EBOB binding in a concentration-dependent manner where the IC ₅₀ value for this potentiation in native GABA _A receptors is 3.7 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ali Y Benkherouf, et al. Hops Compounds Modulatory Effects and 6-prenylnaringenin Dual Mode of Action on GABA AReceptors. Eur J Pharmacol. 2020 Apr 15;873:172962.

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

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