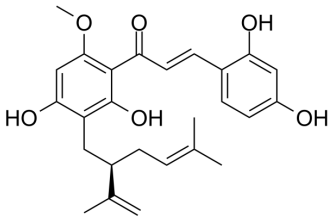
Kuraridine

Cat. No.:	HY-121381
CAS No.:	34981-25-4
Molecular Formula:	$C_{26}H_{30}O_6$
Molecular Weight:	438.51
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (228.04 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2804 mL	11.4022 mL	22.8045 mL
	5 mM	0.4561 mL	2.2804 mL	4.5609 mL
	10 mM	0.2280 mL	1.1402 mL	2.2804 mL

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

BIOLOGICAL ACTIVITY

Description

Kuraridine is a prenylated flavonol extract from the roots of Sophora flavescens. Kuraridine has an inhibitory effect on cGMP specific phosphodiesterase type 5 (PDE5) (IC_{50}=0.64 μM)[1].

IC_{50} & Target

PDE5

0.64 μM (IC_{50})

In Vitro

Kuraridine shows potent inhibitory activity (IC_{50}=0.64 μM) against cGMP PDE5 with 2.0- and 12.9-fold selectivity over PDE3 and PDE4, respectively[1].

Kuraridine induces pronounced chloride inward currents in the absence of GABA. Thecurrents does not exceed 10% of the maximal I_{GABA} induced by a saturating GABA concentration (1 mM)[2].

Kuraridine induces a concentration–response curves for I_{GABA} enhancement (EC_{50}=4.0±2.4 μM) in Xenopus oocytes expressing $GABA_A$ receptors composed of α1, β2, and γ2S subunits[2].

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

REFERENCES

[1]. Hye Joo Shin, et al. A prenylated flavonol, sophoflavescenol: a potent and selective inhibitor of cGMP phosphodiesterase 5. Bioorg Med Chem Lett. 2002 Sep 2;12(17):2313-6.

[2]. Xinzhou Yang, et al. HPLC-based activity profiling for GABAA receptor modulators from the traditional Chinese herbal drug Kushen (Sophora flavescens root). Mol Divers. 2011 May;15(2):361-72.

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