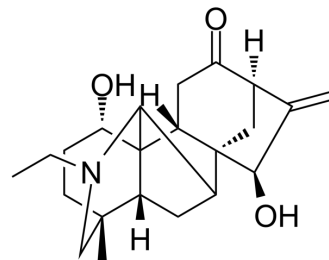


Songorine

Cat. No.:	HY-N2080
CAS No.:	509-24-0
Molecular Formula:	C ₂₂ H ₃₁ NO ₃
Molecular Weight:	357.49
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 (279.73 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.7973 mL	13.9864 mL	27.9728 mL
				5 mM	0.5595 mL	2.7973 mL	5.5946 mL
				10 mM	0.2797 mL	1.3986 mL	2.7973 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 (6.99 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Songorine is a diterpenoid alkaloid isolated from the genus Aconitum. Songorine is a GABAA receptor antagonist in rat brain and has anti cancer, antiarrhythmic and anti-inflammatory activities. Songorine has the potential for the treatment of Epithelial ovarian cancer (EOC) ^[1] .
IC ₅₀ & Target	IC50: GABAA receptor ^[1]
In Vivo	Songorine is investigated its efficacy and safety in SKOV3 tumorbearing BALB/c nude mice, songorine inhibits EOC cell survival, invasion and migration, promoted EOC cell apoptosis and suppressed mammalian EOC tumorigenic behavior. In addition, western blot and IHC results show that songorine consistently downregulates the expression of Ncadherin,

vimentin, matrix metalloproteinase (MMP)2, MMP9, phosphorylated GSK3 β , β catenin and Bcl2, and upregulated the expression of Ecadherin, cleaved caspase3, cleaved caspase9 and Bax^[1].

Songorine shows an Antiarrhythmic activity in aconitine-induced arrhythmia model in rats, exhibits LD₅₀ and ED₅₀ values of 142 mg and 7.3mg, respectively^[2].

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

REFERENCES

[1]. Zhang H, et al. Songorine suppresses cell growth and metastasis in epithelial ovarian cancer via the Bcl2/Bax and GSK3 β / β catenin signaling pathways. *Oncol Rep.* 2019 May;41(5):3069-3079.

[2]. Khan H, et al. Therapeutic potential of songorine, a diterpenoid alkaloid of the genus Aconitum. *Eur J Med Chem.* 2018 Jun 10;153:29-33.

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