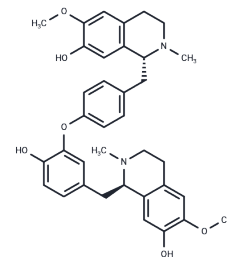


Guattegaumerine

Chemical Properties

CAS No. :	21446-35-5
Formula:	C ₃₆ H ₄₀ N ₂ O ₆
Molecular Weight:	596.724
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Guattegaumerine, a bisbenzylisoquinoline alkaloid, exhibits antimitotic, cytotoxic, and neuroprotective activities.
Targets(IC50)	Others
In vitro	Guattegaumerine administration (1.25-6.25 μ M; 24 hours; 30 min before exposure to serum-starvation+H ₂ O ₂) notably enhances cell viability at concentrations of 1.25 and 2.5 μ M. Pretreatment with guattegaumerine also significantly reduces LDH efflux[1]. At a concentration of 2.5 μ M and the same pretreatment duration, guattegaumerine substantially diminishes oxidative stress-induced apoptosis in rat cortical neurons compared to the control group[1]. Furthermore, guattegaumerine, at doses ranging from 1.25 to 2.5 μ M, effectively lowers the increase in Ca ²⁺ prompted by H ₂ O ₂ and KCl in cortical neurons[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6758 mL	8.3791 mL	16.7583 mL
5 mM	0.3352 mL	1.6758 mL	3.3517 mL
10 mM	0.1676 mL	0.8379 mL	1.6758 mL
50 mM	0.0335 mL	0.1676 mL	0.3352 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qing Lü, et al. Guattegaumerine protects primary cultured cortical neurons against oxidative stress injury induced by hydrogen peroxide concomitant with serum deprivation. *Cell Mol Neurobiol.* 2009 May;29(3):355-64.

J Leclercq, et al. Antimitotic and cytotoxic activities of guattegaumerine, a bisbenzylisoquinoline alkaloid. *Planta Med*

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