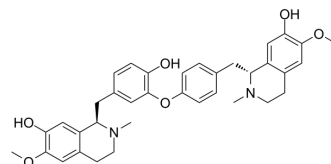


## Guattegaumerine

Cat. No.:	HY-N9338
CAS No.:	21446-35-5
Molecular Formula:	C <sub>36</sub> H <sub>40</sub> N <sub>2</sub> O <sub>6</sub>
Molecular Weight:	596.71
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Guattegaumerine is a bisbenzylisoquinoline alkaloid with antimitotic, cytotoxic and neuroprotective activities <sup>[1]</sup> .
<b>In Vitro</b>	<p>Guattegaumerine (1.25-6.25 μM; 24 hours; 30 min before exposure to serum-starvation+H<sub>2</sub>O<sub>2</sub>) significantly increases cell viability at 1.25 and 2.5 μM; and guattegaumerine pretreatment significantly inhibits LDH efflux<sup>[1]</sup>.</p> <p>Guattegaumerine (2.5 μM; 24 hours; 30 min before exposure to serum-starvation+H<sub>2</sub>O<sub>2</sub>) markedly reduces the oxidative stress-induced apoptosis in rat cortical neurons when compares with the control group<sup>[1]</sup>.</p> <p>Guattegaumerine (1.25-2.5 μM; 24 hours; 30 min before exposure to serum-starvation+H<sub>2</sub>O<sub>2</sub>) decreases H<sub>2</sub>O<sub>2</sub> and KCl induced Ca<sup>[2+]</sup>i increase in cortical neurons<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. 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.
- [2]. J Leclercq, et al. Antimitotic and cytotoxic activities of guattegaumerine, a bisbenzylisoquinoline alkaloid. *Planta Med*

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

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