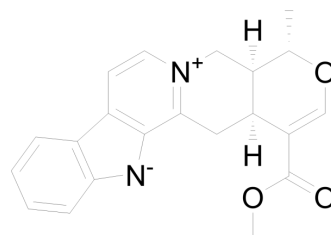


Alstonine

Cat. No.:	HY-121002
CAS No.:	642-18-2
Molecular Formula:	C ₂₁ H ₂₀ N ₂ O ₃
Molecular Weight:	348.4
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Alstonine is a major indole alkaloid compound of a plant-based remedy. Alstonine has antipsychotic, anxiolytic, anticancer and antimalarial properties ^[1] .
IC₅₀ & Target	Plasmodium
In Vitro	Alstonine has the capacity to distinguish cancer DNA from healthy tissue DNA; it inhibits DNA in vitro synthesis when DNA from different cancerous tissues or cells is used as template. Practically without effects on DNA from healthy tissues ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In mice models Alstonine shows a clear, dose-dependent, potent antipsychotic profile. Alstonine (i.p.) prevents amphetamine-induced lethality, with active doses within the range of 0.5-2.0 mg/kg ^[1] . Alstonine (0.1, 0.5 and 1.0 mg/kg) prevents MK-801 induced hyperlocomotion. Because Alstonine partially reverses MK-801-induced increase in locomotion both at the hole-board and locomotor activity cages ^[1] . Alstonine successfully treats a relatively important proportion of BALB/C mice inoculated with transplantable YC8 lymphoma ascites cells as well as Swiss mice bearing Ehrlich ascites carcinoma cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. E Elisabethsky, et al. The Alkaloid Alstonine: A Review of Its Pharmacological Properties. Evid Based Complement Alternat Med. 2006 Mar;3(1):39-48.

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

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