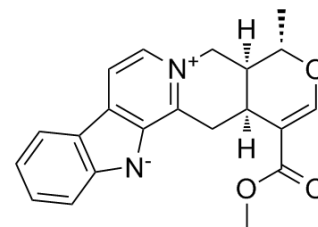


## Alstonine

<b>Cat. No.:</b>	HY-121002
<b>CAS No.:</b>	642-18-2
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	348.4
<b>Target:</b>	Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Alstonine is a major indole alkaloid compound of a plant-based remedy. Alstonine has antipsychotic, anxiolytic, anticancer and antimalarial properties <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	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 <sup>[1]</sup> . 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 <sup>[1]</sup> . 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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