

## Alstonine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Alstonine

**Catalog No.:** CFN97709

**Cas No.:** 642-18-2

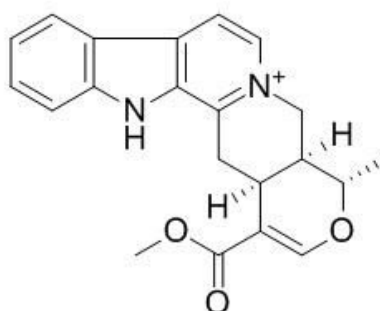
**Purity:** > 98%

**M.F:** C<sub>21</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>

**M.W:** 349.40

**Physical Description:** Yellow powder

**Synonyms:** 3,4,5,6,16,17-Hexadehydro-16-(methoxycarbonyl)-19a-methyl-20a-oxayohimbanium; Oxayohimban-4-ium.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The leaves of *Alstonia yunnanensis* Diels.

## **[ Biological Activity or Inhibitors ]**

Alstonine has antipsychotic-like effects, can prevent MK801-induced working memory deficit and is also effective in counteracting MK801-induced hyperlocomotion and social interaction deficit, indicating its potential benefit for cognitive deficits now seen as a core symptom in the disease; 5-HT 2A/C receptors are central to the antipsychotic-like effects of alstonine, consistently seen in mouse models relevant to the three dimensions of schizophrenia symptoms.<sup>[1]</sup>

Alstonine is a potential fluorescent marker for tiny tumor detection and imaging.<sup>[2]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Methanol-0.1% Trifluoroacetic acid H<sub>2</sub>O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 272 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Linck V M, Bessa M M, Herrmann A P, *et al. Prog. Neuro-Psychoph.*, 2012, 36(1): 29-33.

[2] Vodinh T. *Proc Spie*, 1997, 2976:332-40.

[3] Huang P, Li W J, He B T. *Chinese journal of experimental formulas of Chinese medicine*, 2014, 20 (1) : 66-9.

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