

## Huperzine B Datasheet

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

### [ Product Information ]

**Name:** Huperzine B

**Catalog No.:** CFN99960

**Cas No.:** 103548-82-9

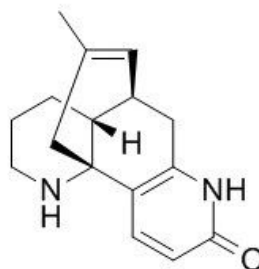
**Purity:** >=98%

**M.F:** C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>O

**M.W:** 256.35

**Physical Description:** Powder

**Synonyms:** 12-Methyl-2,3,4,4a,5,6-hexahydro-1H-5,10b-prop[1]eno-1,7-phenanthrolin-8(7H)-one; (4aR,5S,10bR)-12-methyl-2,3,4,4a,5,6-hexahydro-1H-5,10b-prop[1]eno-1,7-phenanthrolin-8(7H)-one.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Lycopodium serratum*.

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

Huperzine A and B1, two new alkaloids exhibit marked anticholinesterase activity.<sup>[1]</sup>

Huperzine has the value as pretreatment of organophosphate poisoning, it can be used as a protective agent against organophosphate intoxication.<sup>[2]</sup>

Huperzine B, a novel acetylcholinesterase inhibitor, can attenuate hydrogen peroxide induced injury in PC12 cells. <sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile-Methanol-H<sub>2</sub>O=10: 55:240;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 309 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Liu J S, Zhu Y L, Yu C M, *et al. Can. J. Chem.* ,2011, 64(4):837-9.

[2] Lallement G, Baille V, Baubichon D, *et al. Neurotoxicology*, 2002, 23(1):1-5.

[3] Zhang H Y, Tang X C. *Neurosci. Lett.*, 2000, 292(1):41-4.

[4] Yuan J, Zhou X, Wang S, *et al. Chinese Journal of Pharmaceutical Analysis*, 2012, 32(9):1541-4.

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