

(-)-Huperzine A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (-)-Huperzine A

Catalog No.: CFN99958

Cas No.: 102518-79-6

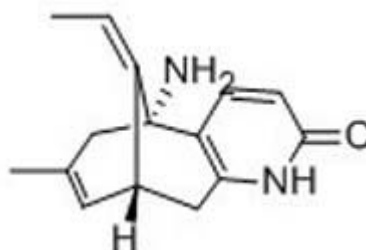
Purity: >=98%

M.F: C₁₅H₁₈N₂O

M.W: 242.32

Physical Description: Powder

Synonyms: 5,9-Methanocycloocta(b)pyridin-2(1h)-one, 5-amino-11-ethylidene-5,6,9,10-tetrahydro-7-methyl-5,9-methanocycloocta[b]pyridin-2-(1H)-one, Selagine.



[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 (HupA), a novel alkaloid isolated from the Chinese herb *Huperziaserrata*, is a potent, highly specific and reversible inhibitor of acetylcholinesterase (AChE), it can significantly improve memory deficits in elderly people with benign senescent forgetfulness, and patients with Alzheimer disease and vascular dementia, with minimal peripheral cholinergic side effects and no unexpected toxicity; it can also be used as a protective agent against organophosphate intoxication.^[1]

Huperzine A can ameliorate the learning and memory deficiency in animal models and Alzheimer's disease (AD) patients, its potentially beneficial actions include modification of beta-amyloid peptide processing, reduction of oxidative stress, neuronal protection against apoptosis, and regulation of the expression and secretion of nerve growth factor (NGF) and NGF signaling.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O=85:15 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 231 nm.

[Storage]

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

[References]

[1] Wang R, Yan H, Tang X. *Acta Pharmacol. Sin.*, 2006, 27(1):1-26.

[2] Zhang H Y, Tang X C. *Trends Pharmacol. Sci.*, 2006, 27(12):619-25.

[3] Yang M, Yao Z, Zhao Y, *et al.* *Bulletin of the Academy of Military Medicalences*, 2000, 24:123-5.

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