

Huperzine A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Huperzine A

Catalog No.: CFN99959

Cas No.: 120786-18-7

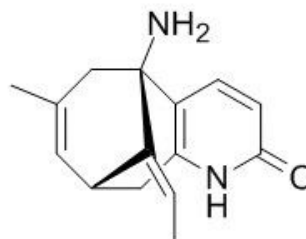
Purity: >=99%

M.F: C₁₅H₁₈N₂O

M.W: 242.32

Physical Description: Powder

Synonyms: (5S,9S,11E)-5-Amino-11-ethylidene-7-methyl-5,6,9,10-tetrahydro-5,9-methanocycloocta[b]pyridin-2(1H)-one; (-)-Huperzine A.



[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 is a potent, highly specific and reversible inhibitor of acetylcholinesterase, it has been found to reverse or attenuate cognitive deficits in a broad range of animal models, it possesses the ability to protect cells against hydrogen peroxide, beta-amyloid protein (or peptide), glutamate, ischemia and staurosporine-induced cytotoxicity and apoptosis, these protective effects are related to its ability to attenuate oxidative stress, regulate the expression of apoptotic proteins Bcl-2, Bax, P53 and caspase-3, protect mitochondria, and interfere with APP metabolism.^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile-Methanol-H₂O(containing 0.32 % phosphoric acid and 0.5 % triethylamine)=10: 55: 240;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 308 nm.

[Storage]

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

[References]

[1] Wang R, Tang X C. *Neurosignals*, 2005, 14(1-2):71-82.

[2] Huang J, Zhao A. *China Journal of Chinese Materia Medica*, 2010, 35(19):2511-5.

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