

Product Data Sheet

Product Name: (-)-Huperzine A

Cat. No.: GC14400

Chemical Properties

Cas. No. 102518-79-6

Formula C₁₅H₁₈N₂O

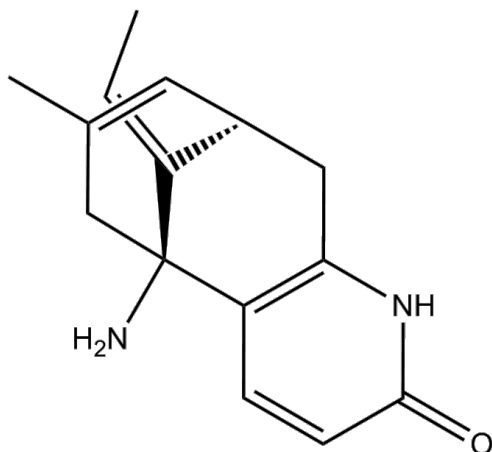
M.Wt 242.32

Solubility DMSO: 20 mg/ml, Methanol: 1 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

(±)-Huperzine A, an active Lycopodium alkaloid extracted from traditional Chinese herb, is a potent, selective and reversible acetylcholinesterase (AChE) inhibitor and has been widely used in China for the treatment of Alzheimer's disease (AD). IC₅₀ value: Target: AChE(±)-Huperzine A exhibited protective effects against d-gal-induced hepatotoxicity and inflamm-aging by inhibiting AChE activity and via the activation of the cholinergic anti-inflammatory pathway. The (±)-Huperzine A mechanism might be involved in the inhibition of DAMPs-mediated NF-κB nuclear localization and activation. (±)-Huperzine A is a potential therapeutic agent for Alzheimer's disease.

References:

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

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- [1]. Burshtein G, Friedman M, Greenberg S, Hoffman A. Transepithelial Transport of a Natural Cholinesterase Inhibitor, Huperzine A, along the Gastrointestinal Tract: the Role of Ionization on Absorption Mechanism. *Planta Med.* 2013 Jan 23.
- [2]. Ruan Q, Liu F, Gao Z, et al. The anti-inflamm-aging and hepatoprotective effects of huperzine A in d-galactose-treated rats. *Mech Ageing Dev.* 2013 Jan 8. pii: S0047-6374(12)00182-0.
- [3]. Zhang HY. New insights into huperzine A for the treatment of Alzheimer's disease. *Acta Pharmacol Sin.* 2012 Sep;33(9):1170-5.
- [4]. Wang J, Zhang HY, Tang XC. Huperzine a improves chronic inflammation and cognitive decline in rats with cerebral hypoperfusion. *J Neurosci Res.* 2010 Mar;88(4):807-15. doi: 10.1002/jnr.22237.
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