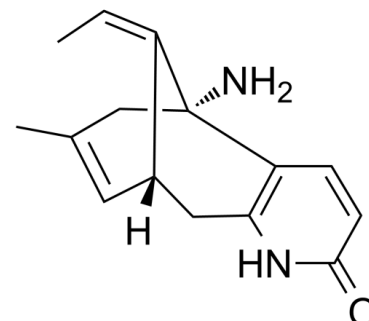


Data Sheet

Product Name:	(-)-Huperzine A
Cat. No.:	CS-1153
CAS No.:	102518-79-6
Molecular Formula:	C ₁₅ H ₁₈ N ₂ O
Molecular Weight:	242.32
Target:	AChE
Pathway:	Neuronal Signaling
Solubility:	DMSO : ≥ 100 mg/mL (412.68 mM)



BIOLOGICAL ACTIVITY:

(-)-Huperzine A (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:

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- [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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CAIndexNames:

5,9-Methanocycloocta[b]pyridin-2(1H)-one, 5-amino-11-ethylidene-5,6,9,10-tetrahydro-7-methyl-, (5R,9R,11E)-

SMILES:

O=C1NC2=C([C@@]1/C3=C\C(N)CC(C)=C[C@@]3([H])C2)C=C1

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

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