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DATASHEET

(-)-Huperzine A

Product overview

Name	(-)-Huperzine A
Cat No	HB0001
Alternative names	Hup A.
Biological action	Inhibitor
Purity	>97%
Description	AChE inhibitor / NMDA receptor antagonist

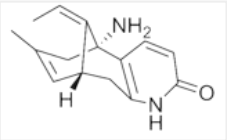
Biological Data

Biological description	Acetylcholinesterase inhibitor (K_i = 6.2 nM). Also NMDA receptor antagonist (K_i = 6 µM at PCP site). Blood brain barrier permeable. Promotes hippocampal neurogenesis. Displays potent antinociceptive and anticonvulsant properties. Also shows positive effects on improving cognitive and behavioural functions.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in DMSO or Ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(1*R*,9*S*,13*E*)-1-Amino-13-ethylidene-11-methyl-6-azatricyclo[7.3.1.$0^{2,7}$]trideca-2(7),3,10-trien-5-one
Molecular Weight	242.32
Chemical structure	
Molecular Formula	$C_{15}H_{18}N_2O$
CAS Number	102518-79-6
PubChem identifier	907504
SMILES	CC=C1C2CC3=C(C1(CC(=C2)C)N)C=CC(=O)N3

References

Huperzine A promotes hippocampal neurogenesis in vitro and in vivo.

Ma T *et al* (2013) Brain Res 1506
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Intrathecal huperzine A increases thermal escape latency and decreases flinching behavior in the formalin test in rats.

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The NMDA receptor ion channel: a site for binding of Huperzine A.

Gordon RK *et al* (2001) J Appl Toxicol 21 Suppl 1
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Identification of amino acid residues involved in the binding of Huperzine A to cholinesterases.

Saxena A *et al* (1994) Protein Sci 3(10)
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