

Product Data Sheet

Product Name: (+)-Sparteine

Cat. No.: GC34959

Chemical Properties

Cas. No. 492-08-0

SMILES [H][C@]12CCCCN1C[C@H]3C[C@@H]2CN4CCCC[C@@]34[H]

Formula $C_{15}H_{26}N_2$ M.Wt 234.38

Solubility Water: 2.86 mg/mL (12.20 mM) Storage Store at -20°C, protect from light

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.

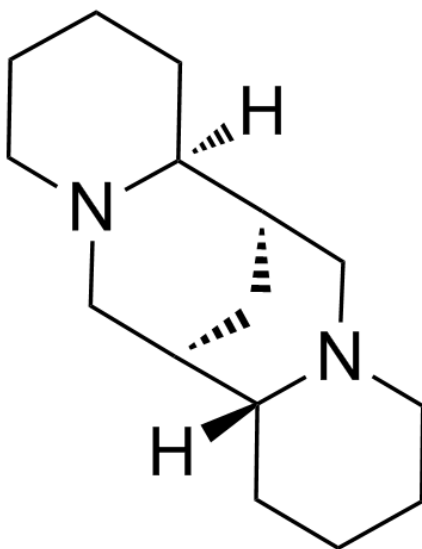
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

(+)-Sparteine is a natural alkaloid acting as a ganglionic blocking agent. (+)-Sparteine competitively blocks nicotinic ACh receptor in the neurons.

(+)-Sparteine (2 μ M) reduces the ACh-induced current caused by activation of nicotinic AChRs in a voltage-independent manner. (+)-Sparteine (5, 10 μ M) reduces the amplitude of the excitatory postsynaptic current (EPSC) and the time constant of the EPSC decay[1].

References:

[1]. Voitenko S, et al. Effect of (+)-sparteine on nicotinic acetylcholine receptors in the neurons of rat superior cervical ganglion. Mol Pharmacol. 1991 Aug;40(2):180-5.

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