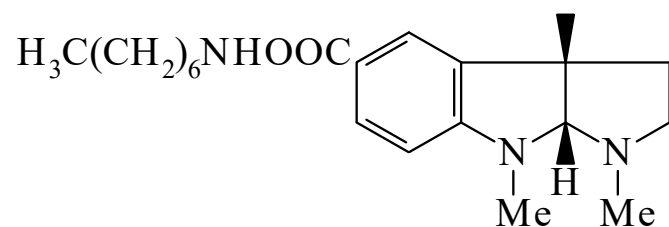




>>Entry Name: Eptastigmine, INN

Synonym(s): 1,2,3,3a,8,8a-Hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl heptylcarbamate, 9Cl. N-Demethyl-N-heptylphysostigmine



CAS Registry Number: 101246-68-8

Molecular Formula: $\text{C}_{21}\text{H}_{33}\text{N}_3\text{O}_2$

Molecular Weight: 359.511

Accurate Mass: 359.257277

Percentage Composition: C 70.16%; H 9.25%; N 11.69%; O 8.90%

Use/Importance: Cholinesterase inhibitor used in the treatment of Alzheimer's disease

Melting Point: Mp 58-62°

Other Data: Lipophilic deriv. of Eserine [BCL85-C](#)

>>Derivative: Tartrate salt

Synonym(s): Synaptan. L 693487. MF 201

CAS Registry Number: 121652-76-4

Physical Description: Cryst.

Melting Point: Mp 122-123°

Hazard & Toxicity: LD₅₀ (rat, orl) 25.1 mg/kg

References:

Brufani, M. *et al.*, *Eur. J. Biochem.*, 1986, **157**, 115, (*pharmacol*)

Marta, M. *et al.*, *Life Sci.*, 1988, **43**, 1921, (*synth*)

Drugs of the Future, 1989, **14**, 123, (*rev*)

Eur. Pat., 1989, *Mediolanum Farm*, 298 202; *CA*, **111**, 58136a, (*synth, activity*)

Unni, L.K. *et al.*, *Eur. J. Clin. Pharmacol.*, 1991, **34**, 473, (*pharmacol*)

Linville, D.G. *et al.*, *J. Neurosci. Res.*, 1992, **31**, 573, (*pharmacol*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1116

Sramek, J.J. *et al.*, *Life Sci.*, 1994, **56**, 319, (*clin trial*)