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产品名称: 加兰他敏

产品别名: 那维定; **Galanthaminone; (-)-Narwedine; Narwedine**

生物活性:	
Description	Galanthaminone (Narwedine) is a competitive and reversible cholinesterase (AChE) inhibitor; is used for the treatment of mild to moderate Alzheimer's disease and various other memory impairments.
IC₅₀ & Target	AChE
In Vitro	Galanthaminone reduces the action of AChE and therefore tends to increase the concentration of acetylcholine in the brain. is also an allosteric ligand at nicotinic acetylcholine receptors. It has shown activity in modulating the nicotinic cholinergic receptors on cholinergic neurons to increase acetylcholine release.
In Vivo	Absorption of Galanthaminone is rapid and complete and shows linear pharmacokinetics. It is well absorbed with absolute oral bioavailability between 80 and 100%. It has a half-life of seven hours. Peak effect of inhibiting acetylcholinesterase was achieved about one hour after a single oral dose of 8 mg in some healthy volunteers.
Solvent&Solubility	In Vitro: H ₂ O : < 0.1 mg/mL (insoluble)
References	[1]. Greenblatt HM, et al. Structure of acetylcholinesterase complexed with (-)-galanthamine at 2.3 Å resolution. FEBS Lett. 1999 Dec 17;463(3):321-6. [2]. Heinrich M, et al. Galanthamine from snowdrop--the development of a modern drug against Alzheimer's disease from local Caucasian knowledge. J Ethnopharmacol. 2004 Jun;92(2-3):147-62.

源叶生物