

## Galantide acetate

## Chemical Properties

CAS No. :

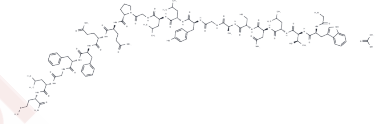
Formula: C106H155N25O28S

Molecular Weight: 2259.58

Store at low temperature, Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Galantide acetate, a non-specific galanin receptor antagonist, is a peptide consisting of fragments of galanin and substance P. Galantide acetate recognizes two classes of galanin binding sites ( $KD < 0.1$ nM and $\sim 6$ nM) in the rat hypothalamus. Galantide acetate dose dependently ( $IC_{50} = 1.0$ nM) antagonizes the galanin-mediated inhibition of the glucose-induced insulin secretion from mouse pancreatic islets. Galantide acetate appears to bind to a single population of SP receptors ( $KD \sim 40$ nM).
Targets( $IC_{50}$ )	Neuropeptide Y Receptor
In vitro	Galantide acetate do not activate the $K^+$ conductance but produces a concentration-dependent antagonism ( $IC_{50} = 4$ nM) of the galanin-induced increase in $K^+$ conductance. Galantide acetate acts like galanin and inhibits the voltage-dependent $Ba^{2+}$ current (IBa). The inhibition of IBa also is concentration dependent ( $IC_{50} = 16$ nM) and the maximum inhibition produced by galantide is approximately 40%[3].
In vivo	Intracerebroventricular injection of Galantide acetate (5 micrograms/rat) inhibited sexual behavior in experienced male rats--without producing any other locomotor or behavioral deficit-, injection of the galanin antagonist, galantide, by the same route (1 or 2 micrograms/rat) stimulated sexual behavior (improving arousal, motivation and performance indexes) and antagonized the effect of galanin[2]. Galantide acetate ameliorates mild acute pancreatitis (AP). Galantide acetate significantly reduces AP-induced hyperenzymemia by 41-49%[3]. Galantide acetate has been found to improve social memory in 'socialrecognition' test when i.c.v. administered at doses varying from 6-6000 nM[4].

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.4426 mL	2.2128 mL	4.4256 mL
5 mM	0.0885 mL	0.4426 mL	0.8851 mL
10 mM	0.0443 mL	0.2213 mL	0.4426 mL
50 mM	0.0089 mL	0.0443 mL	0.0885 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Langel U, et al. Design of chimeric peptide ligands to galanin receptors and substance P receptors. *Int J Pept Protein Res.* 1992;39(6):516-522.

Lindskog S, et al. The novel high-affinity antagonist, galantide, blocks the galanin-mediated inhibition of glucose-induced insulin secretion. *Eur J Pharmacol.* 1992;210(2):183-188.

Mulvaney JM, et al. Galantide distinguishes putative subtypes of galanin receptors in mudpuppy parasympathetic neurons. *Eur J Pharmacol.* 1995;287(1):97-100.

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