

Galanin (Human) (Acetate)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.

Galanin (Human)
(Acetate)

Biological Description

Description

Galanin (Human) (Acetate) is a 30-amino acid neuropeptide and galanin (GAL) receptor agonist. It inhibits forskolin-induced cAMP production in HEK293E cells expressing recombinant human GAL1 receptors (EC₅₀= 0.031 nM) and stimulates inositol phosphate accumulation in CHO cells expressing recombinant human GAL2 receptors (EC₅₀= 12.3 nM). Human galanin induces contractions in isolated rat longitudinal fundus strips with an EC₅₀ value of 13.8 nM. Intrathecal administration of human galanin (3, 10, and 30 nmol/animal) reduces paw licking and flinching in the second, but not first, phase of the formalin test in rats.

Solubility Information

Solubility

H₂O: 1 mg/mL, Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Fitzgerald, L.W., Patterson, J.P., Conklin, D.S., et al. Pharmacological and biochemical characterization of a recombinant human galanin GALR1 receptor: Agonist character of chimeric galanin peptides. *Pharmacol. Exp. Ther.* 287(2)448-456(1998)

Borowsky, B., Walker, M.W., Huang, L.Y., et al. Cloning and characterization of the human galanin GALR2 receptor. *Peptides* 19(10)1771-1781(1998)

Schmidt, W.E., Kratzin, H., Eckart, K., et al. Isolation and primary structure of pituitary human galanin, a 30-residue nonamidated neuropeptide. *Proc. Natl. Acad. Sci. USA* 88(24)11435-11439(1991)

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