

Galanin (2-11) amide (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Galanin (2-11) amide is a synthetic peptide fragment of the neuropeptide galanin and an agonist of the galanin-2 (GAL2) receptor (EC50= 9.32 nM in a fluorescence imaging plate reader assay).1It selectively binds to the GAL2receptor (IC50= 1.76 nM for the rat receptor) over the GAL1receptor (IC50= 879 nM for the human receptor) but does also bind to the GAL3receptor (Ki= 271 nM for the rat receptor).1,2Intracerebroventricular administration of galanin (2-11) amide (1 nmol/animal) decreases immobility in the forced swim test in rats.3It also reduces the hind paw mechanical pain threshold and increases the hind paw cold sensitivity threshold in rats.1
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## Solubility Information

Solubility	DMSO: 5 mg/mL,Sonication is recommended. DMF: 5 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Liu, H.-X., Brumovsky, P., Schmidt, R., et al.Receptor subtype-specific pronociceptive and analgesic actions of galanin in the spinal cord: Selective actions via GalR1 and GalR2 receptorsProc. Natl. Acad. Sci. USA98(17)9960-9964(2001)

Lu, X., Lundstr?m, L., and Bartfai, T.Galanin (2-11) binds to GalR3 in transfected cell lines: Limitations for pharmacological definition of receptor subtypesNeuropeptides39(3)165-167(2005)

Kuteeva, E., Wardi, T., Lundstr?m, L., et al.Differential role of galanin receptors in the regulation of depression-like behavior and monoamine/stress-related genes at the cell body levelNeuropsychopharmacology33(11)2573-2585 (2008)

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