

Recombinant Human galanin/GMAP prepropeptide, His-tagged

Cat. No. GAL-539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GAL, 20-123aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	20-123 a.a.
Description	Galanin peptides preproprotein, also known as GAL, is localized in brain pathways involved in both cognition and affect, and may inhibit learning and memory by inhibiting neurotransmitter release and neuronal firing rate. It modulates a variety of physiological processes including cognition/memory, sensory/pain processing, neurotransmitter/hormone secretion, and feeding behavior. GAL is upregulated in primary afferent and sympathetic neurones and may be involved in the development of sympathetic perineuronal baskets ("rings") following nerve injury. Recombinant human GAL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT
Molecular Mass	13.9kDa (127aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSASAGLWS PAKEKRGWTL NSAGYLLGPH AVGNHRSFSD KNGLTSKREL RPEDDMKPGS FDRSIPENNI MRTIIEFLSF

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LHLKEAGALD RLLDLPAAS SEDIERS

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GAL galanin prepropeptide [Homo sapiens]

Official Symbol GAL

Synonyms GAL; galanin prepropeptide; galanin , GALN; galanin peptides; galanin message associated peptide; GLNN; GMAP; galanin-related peptide; galanin-message-associated peptide; GALN; MGC40167;

Gene ID 51083

mRNA Refseq NM_015973

Protein Refseq NP_057057

MIM 137035

UniProt ID P22466

Chromosome Location 11q13.2

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Pathway

Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;

Function

neuropeptide hormone activity;

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