

Galanin Protein, Human (N-His, C-Myc)

Cat. No.:	HY-P700564
Synonyms:	GAL; galanin prepropeptide; galanin , GALN; galanin peptides; galanin message associated peptide; GLNN; GMAP; galanin-related peptide; galanin-message-associated peptide; GALN; MGC40167;
Species:	Human
Source:	E. coli
Accession:	P22466 (G44-S123)
Gene ID:	51083
Molecular Weight:	16.4 kDa

PROPERTIES

AA Sequence	G P H A V G N H R S F S D K N G L T S K R E L R P E D D M K P G S F D R S I P E N N I M R T I I E F L S F L H L K E A G A L D R L L D L P A A A S S E D I E R S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Galanin is a neuropeptide acting as an endocrine hormone in both the central and peripheral nervous systems, engaging G protein-coupled receptors, specifically GALR1, GALR2, and GALR3. This small protein exerts regulatory control over a range of physiological functions, including the contraction of smooth muscles in the gastrointestinal and genitourinary tract, as well as the modulation of growth hormone and insulin release, and adrenal secretion. By binding to its specific receptors, galanin plays a multifaceted role in coordinating various physiological processes, highlighting its significance in the intricate network of signaling pathways within the body. (
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Caution: Product has not been fully validated for medical applications. For research use only.

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