Galanin (GAL) ELISA Kit for Canine

PRODUCT OVERVIEW

Product Name	Galanin, ELISA Kit
Full Product Name	Canine Galanin ELISA Kit
Product Gene Name	GAL elisa kit
Species Reactivity	Canine
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	13,302 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (68451983..68458643). Location: 11q13.3
OMIM	137035
3D Structure	ModBase 3D Structure for P22466
Related Product Information for GAL elisa kit	MBS044563 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Galanin, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GAL. The ELISA analytical biochemical technique of the MBS044563 kit is based on GAL antibody-GAL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GAL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GAL. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GAL elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAL. It may not necessarily be applicable to this product.

NCBI GI #	27804313
NCBI GeneID	51083
NCBI Accession #	NP_057057.2
UniProt Primary Accession #	P22466
UniProt Secondary Accession #	Q14413
UniProt Related Accession #	P22466
GenBank Nucleotide #	NM_015973.3
NCBI Official Full Name	galanin peptides preproprotein
NCBI Official Synonym Full Names	galanin/GMAP prepropeptide
NCBI Official Symbol	GAL
NCBI Official Synonym Symbols	GALN; GLNN; GMAP; GAL-GMAP
UniProt Protein Name	Galanin peptides

Protein Family	Galactose 1-dehydrogenase
UniProt Gene Name	GAL
UniProt Synonym Gene Names	GAL1; GALN; GLNN; GMAP
UniProt Entry Name	GALA_HUMAN
NCBI Protein Information	galanin peptides; galanin prepropeptide; galanin-related peptide; galanin-message-associated peptide
NCBI Summary for GAL	Galanin is small neuropeptide that functions as a cellular messenger within the central and peripheral nervous systems, modulating diverse physiologic functions (Mechenthaler, 2008 [PubMed 18500643]).[supplied by OMIM, Jan 2009]
UniProt Comments for GAL	Galanin: Contracts smooth muscle of the gastrointestinal and genitourinary tract, regulates growth hormone release, modulates insulin release, and may be involved in the control of adrenal secretion. Belongs to the galanin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 11q13.3 Cellular Component: Golgi apparatus; extracellular space; cell soma; extracellular region; secretory granule Molecular Function: type 3 galanin receptor binding; neuropeptide hormone activity; protein binding; type 2 galanin receptor binding; type 1 galanin receptor binding Biological Process: response to drug; nervous system development; positive regulation of cortisol secretion; positive regulation of apoptosis; positive regulation of catagen; negative regulation of lymphocyte proliferation; response to insulin stimulus; cAMP-mediated signaling; response to estrogen stimulus; insulin secretion; neuropeptide signaling pathway; regulation of glucocorticoid metabolic process; positive regulation of transcription from RNA polymerase II promoter; feeding behavior; inflammatory response Disease: Epilepsy, Familial Temporal Lobe, 8
Research Articles on GAL	**1.** These results suggest that the activation of progalanin by plasmin in the extracellular compartment was involved in MMP-9 and MMP-2 activation and in angiogenesis in tumor tissue.
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