GNG13 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	GNG13, Blocking Peptide
Full Product Name	GNG13 Blocking Peptide
Product Gene Name	GNG13 blocking peptide
Product Synonym Names	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Bovine, Monkey
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	GNG13 peptide (MBS8209826) is used for blocking the activity of GNG13 antibody (MBS8222356)
Molecular Weight	7,949 Da
OMIM	607298
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for GNG13 blocking peptide	Blocking (BL)
Related Product Information for GNG13 blocking peptide	MBS8209826 is a blocking peptide targeting GNG13. Reactive in Human, Mouse, Rat, Bovine, Monkey. Host: Synthetic. The peptide is used to block Anti-GNG13 Antibody reactivity.
Other Notes	Small volumes of GNG13 blocking peptide 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 GNG13. It may not necessarily be applicable to this product.

NCBI GI #	7706567
NCBI GeneID	51764
NCBI Accession #	NP_057625.1
UniProt Primary Accession #	Q9P2W3
UniProt Secondary Accession #	Q52LX0; Q9UJJ3; B2R5C8
UniProt Related Accession #	Q9P2W3
GenBank Nucleotide #	NM_016541.2
NCBI Official Full Name	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13
NCBI Official Synonym Full Names	guanine nucleotide binding protein (G protein), gamma 13

NCBI Official Symbol	GNG13
NCBI Official Synonym Symbols	h2-35; G(gamma)13
UniProt Protein Name	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13
UniProt Gene Name	GNG13
UniProt Entry Name	GBG13_HUMAN
NCBI Protein Information	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13
NCBI Summary for GNG13	Heterotrimeric G proteins, which consist of alpha (see MIM 139320), beta (see MIM 139380), and gamma subunits, function as signal transducers for the 7-transmembrane-helix G protein-coupled receptors. GNG13 is a gamma subunit that is expressed in taste, retinal, and neuronal tissues and plays a key role in taste transduction (Li et al., 2006 [PubMed 16473877]).[supplied by OMIM, Oct 2009]
UniProt Comments for GNG13	G-gamma 13: Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein- effector interaction. Belongs to the G protein gamma family. Protein type: G protein, heterotrimeric gamma Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: plasma membrane; heterotrimeric G-protein complex Molecular Function: signal transducer activity; G-protein beta-subunit binding Biological Process: sensory perception of taste; energy reserve metabolic process; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating)
Research Articles on GNG13	**1.** Observational study of gene-disease association. (HuGE Navigator)
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