GPR3 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GPR3, Blocking Peptide
Full Product Name	GPR3 Peptide - C-terminal region
Product Gene Name	GPR3 blocking peptide
Product Synonym Gene Name	ACCA
Sequence	PPLYTYLTLL PATYNSMINP IIYAFRNQDV QKVLWAVCCC CSSSKIPFRS
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GPR3 peptide (MBS3241279) is used for blocking the activity of GPR3 antibody (MBS3216379)
Molecular Weight	35kDa
OMIM	600241
Product Categories/Family for GPR3 blocking peptide	Peptide
Applications Tested/Suitable for GPR3 blocking peptide	Western Blot (WB)
Related Product Information for GPR3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-GPR3 Antibody, made Target Description: GPR3 is a orphan receptor with constitutive G(s) signaling activity that activate cyclic AMP. GPR3 has a potential role in modulating a number of brain functions, including behavioral responses to stress, amyloid-beta peptide generation in neurons and neurite outgrowth. GPR3 maintains also meiotic arrest in oocytes.
Other Notes	Small volumes of GPR3 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.
Searchable Terms for GPR3 purchase	MBS3241279 is a blocking peptide targeting GPR3. Also known as GPR3 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR3. It may not necessarily be applicable to this product.

NCBI GI #	4885325
NCBI GeneID	2827
NCBI Accession #	NP_005272
UniProt Primary Accession #	P46089
UniProt Related Accession #	P46089
GenBank Nucleotide #	NM_005281
NCBI Official Full Name	G-protein coupled receptor 3

NCBI Official Synonym Full Names	G protein-coupled receptor 3
NCBI Official Symbol	GPR3
NCBI Official Synonym Symbols	ACCA
UniProt Protein Name	G-protein coupled receptor 3
UniProt Synonym Protein Names	ACCA orphan receptor
Protein Family	G-protein coupled receptor
UniProt Gene Name	GPR3
UniProt Synonym Gene Names	ACCA
UniProt Entry Name	GPR3_HUMAN
NCBI Protein Information	G-protein coupled receptor 3
NCBI Summary for GPR3	This gene is a member of the G protein-coupled receptor family and is found in the cell membrane. G protein-coupled receptors, characterized by a seven transmembrane domain motif, are involved in translating outside signals into G protein mediated intracellular effects. The encoded protein activates adenylate cyclase and modulates amyloid-beta production in a mouse model, suggesting that it may play a role in Alzheimer's disease. [provided by RefSeq, Oct 2012]
UniProt Comments for GPR3	GPR3: Orphan receptor with constitutive G(s) signaling activity that activate cyclic AMP. Has a potential role in modulating a number of brain functions, including behavioral responses to stress, amyloid-beta peptide generation in neurons and neurite outgrowth. Maintains also meiotic arrest in oocytes. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Cell cycle regulation; Membrane protein, integral Chromosomal Location of Human Ortholog: 1p36.1-p35 Cellular Component: integral to plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding Biological Process: elevation of cytosolic calcium ion concentration; regulation of meiosis; positive regulation of cAMP metabolic process; G-protein signaling, adenylate cyclase activating pathway
Research Articles on GPR3	**1.** Results demonstrate that GPR3 signals at the plasma membrane and can be silenced by GRK2/beta-arrestin overexpression. These results also strongly implicate the serine and/or threonine residues in the third intracellular loop in the regulation of GPR3 activity.
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