GPR132 Human Protein

PRODUCT OVERVIEW

Product Name	GPR132, Protein
Full Product Name	Human GPR132 full length protein-synthetic nanodisc
Product Gene Name	GPR132 protein
Product Synonym Names	G2A
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	42,499 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (105515737..105531754, complement). Location: 14q32.3
OMIM	606167
3D Structure	ModBase 3D Structure for Q9UNW8
Product Categories/Family for GPR132 protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for GPR132 protein	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein was reported to be a receptor for lysophosphatidylcholine action, but PubMedID: 15653487 retracts this finding and instead suggests this protein to be an effector of lysophosphatidylcholine action. This protein may have proton-sensing activity and may be a receptor for oxidized free fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Other Notes	Small volumes of GPR132 protein 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 GPR132 purchase	MBS189873 is a protein targeting GPR132. Also known as Human GPR132 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR132. It may not necessarily be applicable to this product.

NCBI GI #	7019387
NCBI GeneID	29933
NCBI Accession #	NP_037477.1
UniProt Primary Accession #	Q9UNW8
UniProt Secondary Accession #	Q9BSU2
UniProt Related Accession #	Q9UNW8
GenBank Nucleotide #	NM_013345.2
NCBI Official Full Name	probable G-protein coupled receptor 132

NCBI Official Synonym Full Names	G protein-coupled receptor 132
NCBI Official Symbol	GPR132
NCBI Official Synonym Symbols	G2A
UniProt Protein Name	Probable G-protein coupled receptor 132
UniProt Synonym Protein Names	G2 accumulation protein
Protein Family	Probable G-protein coupled receptor
UniProt Gene Name	GPR132
UniProt Synonym Gene Names	G2A
UniProt Entry Name	GP132_HUMAN
NCBI Protein Information	probable G-protein coupled receptor 132; G2 accumulation protein; G protein-coupled receptor G2A
NCBI Summary for GPR132	This gene encodes a subfamily member of the G-protein couple receptor (GPCR) superfamily. The encoded protein is a high-affinity receptor for lysophosphatidylcholine (LPC), a major phospholipid component of oxidized low density lipoprotein. This protein may react to LPC levels at sites of inflammation to limit the expansion of tissue-infiltrating cells. A similar protein in mouse is involved in cell cycle progression. [provided by RefSeq, Jul 2008]
UniProt Comments for GPR132	GPR132: Receptor for an unknown ligand. Activates a G alpha protein, most likely G alpha(q). May be involved in apoptosis. Functions at the G2/M checkpoint to delay mitosis. May serve as a mechanism for T- and B-cells, and other cell types, to slow their proliferation and repair damaged DNA to ensure proper replication. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: 14q32.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; G1/S transition of mitotic cell cycle
Research Articles on GPR132	**1.** Observational study of gene-disease association, gene-gene interaction, gene-environment interaction, and genetic testing. (HuGE Navigator)
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