GPR55 Human Protein

PRODUCT OVERVIEW

Product Name	GPR55, Protein
Full Product Name	Human GPR55 full length protein-synthetic nanodisc
Product Gene Name	GPR55 protein
Product Synonym Names	LPIR1
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	36,637 Da
OMIM	604107
3D Structure	ModBase 3D Structure for Q9Y2T6
Product Categories/Family for GPR55 protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for GPR55 protein	This gene belongs to the G-protein-coupled receptor superfamily. The encoded integral membrane protein is a likely cannabinoid receptor. It may be involved in several physiological and pathological processes by activating a variety of signal transduction pathways. [provided by RefSeq, Aug 2013]
Other Notes	Small volumes of GPR55 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 GPR55 purchase	MBS189811 is a protein targeting GPR55. Also known as Human GPR55 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR55. It may not necessarily be applicable to this product.

NCBI GI #	33695107
NCBI GeneID	9290
NCBI Accession #	NP_005674.2
UniProt Primary Accession #	Q9Y2T6
UniProt Secondary Accession #	Q8N580
UniProt Related Accession #	Q9Y2T6
GenBank Nucleotide #	NM_005683.3
NCBI Official Full Name	G-protein coupled receptor 55
NCBI Official Synonym Full Names	G protein-coupled receptor 55
NCBI Official Symbol	GPR55

NCBI Official Synonym Symbols	LPIR1
UniProt Protein Name	G-protein coupled receptor 55
Protein Family	G-protein coupled receptor
UniProt Gene Name	GPR55
UniProt Entry Name	GPR55_HUMAN
NCBI Protein Information	G-protein coupled receptor 55
UniProt Comments for GPR55	GPR55: May be involved in hyperalgesia associated with inflammatory and neuropathic pain. Receptor for L- alpha-lysophosphatidylinositol (LPI). LPI induces Ca(2+) release from intracellular stores via the heterotrimeric G protein GNA13 and RHOA. Putative cannabinoid receptor. May play a role in bone physiology by regulating osteoclast number and function. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 2q37 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; cannabinoid receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; negative regulation of osteoclast differentiation; phospholipase C activation; positive regulation of Rho protein signal transduction; bone resorption
Research Articles on GPR55	**1.** GPR55 antagonists occupies a horizontal binding pocket extending into the extracellular loop region, a central ligand portion that fits vertically in the receptor binding pocket.
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