GPR55 Human Protein

PRODUCT OVERVIEW

Product Name	GPR55, Protein
Full Product Name	Human GPR55-Strep 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. Do not use solvents with pH lower
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). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	36,637 Da
OMIM	604107
3D Structure	ModBase 3D Structure for Q9Y2T6
Tag	C-DYKDDDDK&Strep
Product Categories/Family for GPR55 protein	Full Length Transmembrane Proteins; Druggable Genome; GPCR; Transmembrane
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	MBS1883222 is a protein targeting GPR55. Also known as Human GPR55-Strep 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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/protein/gpr55/1883222