PRLHR Human Protein

PRODUCT OVERVIEW

Product Name	PRLHR, Protein
Full Product Name	Human PRLHR-Strep full length protein-synthetic nanodisc
Product Gene Name	PRLHR protein
Product Synonym Names	GPR10; GR3; PrRPR
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	41,121 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (120352916..120355160, complement). Location: 10q26.13
OMIM	600895
3D Structure	ModBase 3D Structure for P49683
Tag	C-DYKDDDDK&Strep
Product Categories/Family for PRLHR protein	GPCRDB Class A Rhodopsin-like; Metabolic and Obesity
Related Product Information for PRLHR protein	PRLHR is a 7-transmembrane domain receptor for prolactin-releasing hormone (PRLH; MIM 602663) that is highly expressed in anterior pituitary (Ozawa et al., 2002 [PubMed 11923475]).[supplied by OMIM, Mar 2008]
Other Notes	Small volumes of PRLHR 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 PRLHR purchase	MBS1883608 is a protein targeting PRLHR. Also known as Human PRLHR-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

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

NCBI GI #	4758474
NCBI GeneID	2834
NCBI Accession #	NP_004239.1
UniProt Primary Accession #	P49683
UniProt Secondary Accession #	O75194; Q502U8; Q5VXR9
UniProt Related Accession #	P49683
GenBank Nucleotide #	NM_004248.2
NCBI Official Full Name	prolactin-releasing peptide receptor

NCBI Official Synonym Full Names	prolactin releasing hormone receptor
NCBI Official Symbol	PRLHR
NCBI Official Synonym Symbols	GR3; GPR10; PrRPR
UniProt Protein Name	Prolactin-releasing peptide receptor
UniProt Synonym Protein Names	G-protein coupled receptor 10; hGR3
Protein Family	Prolactin-releasing peptide receptor
UniProt Gene Name	PRLHR
UniProt Synonym Gene Names	GPR10; GR3; PrRP receptor; PrRPR
UniProt Entry Name	PRLHR_HUMAN
NCBI Protein Information	prolactin-releasing peptide receptor; hGR3; prRP receptor; G protein-coupled receptor 10; G-protein coupled receptor 10; prolactin releasing peptide receptor; prolactin-releasing hormone receptor
UniProt Comments for PRLHR	GPR10: Receptor for prolactin-releasing peptide (PrRP). Implicated in lactation, regulation of food intake and pain-signal processing. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral Chromosomal Location of Human Ortholog: 10q26.13 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding; neuropeptide receptor activity; neuropeptide Y receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; neuropeptide signaling pathway; hormone metabolic process; feeding behavior; female pregnancy
Research Articles on PRLHR	**1.** demonstrate previously unrecognized roles for GPR10 and its upstream regulator REST in the pathogenesis of uterine fibroids
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