PI2R Human Protein

PRODUCT OVERVIEW

Product Name	PI2R, Protein
Full Product Name	Human PI2R-Strep full length protein-synthetic nanodisc
Product Gene Name	PI2R protein
Product Synonym Names	IP; PRIPR
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	40,956 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (47123725..47128354, complement). Location: 19q13.3
OMIM	600022
3D Structure	ModBase 3D Structure for P43119
Tag	C-DYKDDDDK&Strep
Product Categories/Family for PI2R protein	GPCRDB Class A Rhodopsin-like; Prostaglandin synthesis regulation; Small ligand GPCRs; Metabolic and Obesity
Related Product Information for PI2R protein	The protein encoded by this gene is a member of the G-protein coupled receptor family 1 and has been shown to be a receptor for prostacyclin. Prostacyclin, the major product of cyclooxygenase in macrovascular endothelium, elicits a potent vasodilation and inhibition of platelet aggregation through binding to this receptor. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of PI2R 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 PI2R purchase	MBS1883606 is a protein targeting PI2R. Also known as Human PI2R-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PI2R. It may not necessarily be applicable to this product.

NCBI GI #	4506263
NCBI GeneID	5739
NCBI Accession #	NP_000951.1
UniProt Primary Accession #	P43119
UniProt Related Accession #	P43119
GenBank Nucleotide #	NM_000960.3
NCBI Official Full Name	prostacyclin receptor

NCBI Official Synonym Full Names	prostaglandin I2 (prostacyclin) receptor (IP)
NCBI Official Symbol	PTGIR
NCBI Official Synonym Symbols	IP; PRIPR
UniProt Protein Name	Prostacyclin receptor
UniProt Synonym Protein Names	Prostaglandin I2 receptor; PGI receptor; PGI2 receptor; Prostanoid IP receptor
UniProt Gene Name	PTGIR
UniProt Synonym Gene Names	PRIPR; PGI receptor
UniProt Entry Name	PI2R_HUMAN
NCBI Protein Information	prostacyclin receptor; PGI receptor; PGI2 receptor; prostanoid IP receptor; prostaglandin I2 receptor
UniProt Comments for PI2R	PTGIR: Receptor for prostacyclin (prostaglandin I2 or PGI2). The activity of this receptor is mediated by G(s) proteins which activate adenylate cyclase. Belongs to the G-protein coupled receptor 1 family. Protein type: Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: integral to plasma membrane; plasma membrane; cytosol Molecular Function: G-protein coupled receptor activity; guanyl-nucleotide exchange factor activity Biological Process: G-protein signaling, coupled to cyclic nucleotide second messenger; cell-cell signaling; negative regulation of smooth muscle cell proliferation; positive regulation of cAMP biosynthetic process; response to lipopolysaccharide; blood coagulation; G-protein signaling, adenylate cyclase activating pathway; positive regulation of GTPase activity
Research Articles on PI2R	**1.** these data provide critical insights into the transcriptional regulation of the human prostacyclin receptor gene within the vasculature, including during megakaryocytic differentiation
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