PI2R Human Protein

PRODUCT OVERVIEW

Product Name	PI2R, Protein
Full Product Name	Human PI2R 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.
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	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
Product Categories/Family for PI2R protein	FLP 489; Full Length Transmembrane Proteins
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	MBS1880198 is a protein targeting PI2R. Also known as Human PI2R 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
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/pi2r/1880198