P2Y11 Human Protein

PRODUCT OVERVIEW

Product Name	P2Y11, Protein
Full Product Name	Human P2Y11 full length protein-synthetic nanodisc
Product Gene Name	P2Y11 protein
Product Synonym Names	P2Y11
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	40,345 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (10222197..10226065). Location: 19p13.2
OMIM	602697
3D Structure	ModBase 3D Structure for Q96G91
Product Categories/Family for P2Y11 protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for P2Y11 protein	The product of this gene belongs to the family of G-protein coupled receptors. This family has several receptor subtypes with different pharmacological selectivity, which overlaps in some cases, for various adenosine and uridine nucleotides. This receptor is coupled to the stimulation of the phosphoinositide and adenylyl cyclase pathways and behaves as a selective purinoceptor. Naturally occuring read-through transcripts, resulting from intergenic splicing between this gene and an immediately upstream gene (PPAN, encoding peter pan homolog), have been found. The PPAN-P2RY11 read-through mRNA is ubiquitously expressed and encodes a fusion protein that shares identity with each individual gene product. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of P2Y11 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 P2Y11 purchase	MBS1880187 is a protein targeting P2Y11. Also known as Human P2Y11 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for P2Y11. It may not necessarily be applicable to this product.

NCBI GI #	23463303
NCBI GeneID	5032
NCBI Accession #	NP_002557.2
UniProt Primary Accession #	Q96G91
UniProt Secondary Accession #	O43190; Q9BYU4; Q9H170; B2R8X9
UniProt Related Accession #	Q96G91
GenBank Nucleotide #	NM_002566.4

NCBI Official Full Name	P2Y purinoceptor 11
NCBI Official Synonym Full Names	purinergic receptor P2Y, G-protein coupled, 11
NCBI Official Symbol	P2RY11
NCBI Official Synonym Symbols	P2Y11
UniProt Protein Name	P2Y purinoceptor 11
Protein Family	P2Y purinoceptor
UniProt Gene Name	P2RY11
UniProt Synonym Gene Names	P2Y11
UniProt Entry Name	P2Y11_HUMAN
NCBI Protein Information	P2Y purinoceptor 11; purinergic receptor P2Y11
UniProt Comments for P2Y11	P2RY11: Receptor for ATP and ADP coupled to G-proteins that activate both phosphatidylinositol-calcium and adenylyl cyclase second messenger systems. Not activated by UTP or UDP. 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: 19p13.2 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: ATP-activated nucleotide receptor activity; purinergic nucleotide receptor activity, G-protein coupled; receptor activity; neurotransmitter receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; synaptic transmission; adenylate cyclase activation; calcium-mediated signaling; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); defense response; adenosine receptor signaling pathway
Research Articles on P2Y11	**1.** The study extends on the observation of a strong multiethnic association of polymorphisms in the TCRA and P2RY11 with narcolepsy, but does not confirm the association of CPT1B/CHKB (rs5770917) in the Chinese population.
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