PTGDR Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PTGDR, Blocking Peptide
Full Product Name	PTGDR Peptide - C-terminal region
Product Gene Name	PTGDR blocking peptide
Product Synonym Gene Name	AS1; ASRT1; DP; DP1; MGC49004; PTGDR1
Sequence	FKDVKEKNRT SEEAEDLRAL RFLSVISIVD PWIFIIFRSP VFRIFFHKIF
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PTGDR peptide (MBS3240083) is used for blocking the activity of PTGDR antibody (MBS3215170)
Molecular Weight	40kDa
OMIM	604687
Product Categories/Family for PTGDR blocking peptide	Peptide
Applications Tested/Suitable for PTGDR blocking peptide	Western Blot (WB)
Related Product Information for PTGDR blocking peptide	This is a synthetic peptide designed for use in combination with anti-PTGDR Antibody, made Target Description: PTGDR is a receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate.
Other Notes	Small volumes of PTGDR blocking peptide 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 PTGDR purchase	MBS3240083 is a blocking peptide targeting PTGDR. Also known as PTGDR Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	28466969
NCBI GeneID	5729
NCBI Accession #	NP_000944
UniProt Primary Accession #	Q13258
UniProt Related Accession #	Q13258
GenBank Nucleotide #	NM_000953
NCBI Official Full Name	prostaglandin D2 receptor isoform 1

NCBI Official Synonym Full Names	prostaglandin D2 receptor
NCBI Official Symbol	PTGDR
NCBI Official Synonym Symbols	DP; AS1; DP1; ASRT1; PTGDR1
UniProt Protein Name	Prostaglandin D2 receptor
UniProt Synonym Protein Names	Prostanoid DP receptor
Protein Family	Prostaglandin D2 receptor
UniProt Gene Name	PTGDR
UniProt Synonym Gene Names	PGD receptor
UniProt Entry Name	PD2R_HUMAN
NCBI Protein Information	prostaglandin D2 receptor
NCBI Summary for PTGDR	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein is reported to be a receptor for prostaglandin D2, which is a mediator of allergic inflammation and allergic airway inflammation in asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for PTGDR	PTGDR: Receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate. Genetic variations in PTGDR are associated with susceptibility to asthma-related traits type 1 (ASRT1). Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing and dyspnea. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 14q22.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: protein binding; prostaglandin J receptor activity; prostaglandin D receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; male sex determination; adenosine metabolic process; sleep; inflammatory response Disease: Asthma-related Traits, Susceptibility To, 1
Research Articles on PTGDR	**1.** PGD2 signaling through the D-prostanoid receptor 1 (DP1) receptor is necessary for optimal microglia/macrophage activation and IFN expression after infection with a neurotropic coronavirus
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