PTGDR Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PTGDR, Blocking Peptide
Full Product Name	PTGDR Blocking Peptide
Product Gene Name	PTGDR blocking peptide
Product Synonym Names	AS 1; AS1; ASRT 1; ASRT1; DP; MGC49004; OTTHUMP00000178986; PD2R_HUMAN; PGD receptor; PGD2 receptor; Prostaglandin D2 receptor (DP); Prostaglandin D2 receptor; Prostanoid DP receptor; Ptgdr
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PTGDR peptide (MBS9625382) is used for blocking the activity of PTGDR antibody (MBS9606665)
Molecular Weight	40 KD
Chromosome Location	Chromosome: 14; NC_000014.8 (52734431..52743442). Location: 14q22.1
OMIM	604687
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PTGDR blocking peptide	Blocking/Control
Related Product Information for PTGDR blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
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	MBS9625382 is a blocking peptide targeting PTGDR.

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_000944.1
UniProt Primary Accession #	Q13258
UniProt Secondary Accession #	Q13250; Q13251; Q1ZZ52; G3V5L3

UniProt Related Accession #	Q13258
GenBank Nucleotide #	NM_000953.2
NCBI Official Full Name	prostaglandin D2 receptor
NCBI Official Synonym Full Names	prostaglandin D2 receptor (DP)
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; PGD receptor; PGD2 receptor
NCBI Summary for PTGDR	The protein encoded by this gene is a G-protein-coupled receptor. It has been shown to function as a prostanoid DP receptor. The activity of this receptor is mainly mediated by G-S proteins that stimulate adenylate cyclase resulting in an elevation of intracellular cAMP and Ca2+. Knockout studies in mice suggest that the ligand of this receptor, prostaglandin D2 (PGD2), functions as a mast cell-derived mediator to trigger asthmatic responses. [provided by RefSeq, Jul 2008]
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.** Genetic variant may play a role in NSAID induced acute urticaria.
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