

Recombinant Human PTGDR

Cat. No. PTGDR-31204TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Prostaglandin D2 Receptor with N terminal proprietary tag. Predicted MW 65.60 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	359 amino acids
Description	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 Ca ²⁺ . Knockout studies in mice suggest that the ligand of this receptor, prostaglandin D2 (PGD ₂), functions as a mast cell-derived mediator to trigger asthmatic responses.
Molecular Weight	65.600kDa inclusive of tags
Tissue specificity	Expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small intestine and platelet membranes.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MKSPFYRCQNTTSVEKGNSAVMGGVLFSTGLLGNLLALGL LARSGLGWCSRRPLR PLPSVFYMLVCGLTVTDLLGKCLLS PVVLAAYAQNRSRLRVLAPALDNSLCQAFAFFM SFFGLSST LQLLAMALECWLSLGHPPFFYRRHITLRLGALVAPVVSASF LAFCALPFM GFGKFVQYCPGTWCFIQMVHEEGSLSVLGYS VLYSSLMALLVLATVLCNLGAMRNL YAMHRRQLQRHPR SCT RDCAEPRADGREAS PQPLEELDHLLLLALMTVLFTMC SLP VIYRAYYGAFKDVKEKNRTSEEAE DLRALRFLSVISIVDP WIFIFRSPVFRIF FHKIFIR PLRYRSRCSNSTNMESSL
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	PTGDR prostaglandin D2 receptor (DP) [Homo sapiens]
Official Symbol	PTGDR
Synonyms	PTGDR; prostaglandin D2 receptor (DP); prostaglandin D2 receptor; DP; DP1; PTGDR1;
Gene ID	5729
mRNA Refseq	NM_000953
Protein Refseq	NP_000944

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MIM	604687
Uniprot ID	Q13258
Chromosome Location	14q22.1
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Eicosanoid ligand-binding receptors, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;
Function	G-protein coupled receptor activity; prostaglandin D receptor activity; prostaglandin J receptor activity; protein binding; receptor activity;

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