

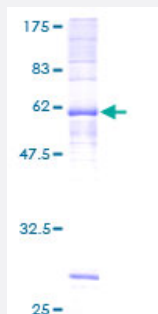
Full-Length

PTGDR (Human) Recombinant Protein (P01)

Catalog # H00005729-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTGDR full-length ORF (AAH40968, 1 a.a. - 359 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKSPFYRCQNTTSVEKGNSAVMGGVLFSTGLLGNLLALGLLARSGLGWCSRRPLRPLPSVFYML
VCGLTVTDLLGKCLLSPVVLAAYAQNRSRLVLAPALDNSLCQAFAFFMSFFGLSSTLQLLAMALE
CWLSLGHPFFYRRHITRLGALVAPVVSFAFLAFCALPFMGFGKFVQYCPGTWCFIQMVHEEGSL
SVLGYSVLYSSLMALLVLATVLCNLGAMRNLYAMHRRQLQRHPRSTRDCAEPRADGREASQPL
EELDHLLLLALMTVLFMTCSLPVIYRAYYGAFKDVKEKNRTSEEAEADLRALRFLSVISVDPWIFIIFR
SPVFRIFHFKIFIRPLRYRSRCSNSTNMESL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

65.23

Interspecies Antigen Sequence

Mouse (73); Rat (76)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTGDR

Entrez GeneID[5729](#)**GeneBank Accession#**[BC040968](#)**Protein Accession#**[AAH40968](#)**Gene Name**

PTGDR

Gene Alias

AS1, ASRT1, DP, DP1, MGC49004

Gene Description

prostaglandin D2 receptor (DP)

Omim ID[604687 607277](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

PGD receptor|prostaglandin D2 receptor|prostanoid DP receptor

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Asthma](#)
- [Birth Weight](#)
- [Bronchial Hyperreactivity](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hypersensitivity](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Premature Birth](#)
- [Respiratory Sounds](#)
- [Rhinitis](#)
- [Tobacco Use Disorder](#)