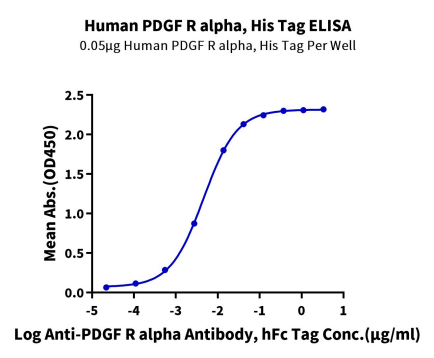
Bioactive HuPro®

PDGFRA (Human) Recombinant Protein

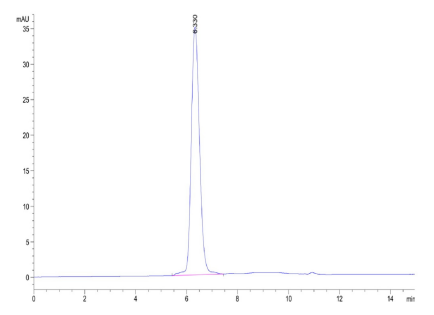
Catalog # P10239 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human PDGF R alpha, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-PDGF R alpha Antibody, hFc Tag with the EC_{50} of 4.6 ng/ml determined by ELISA.



SEC-HPLC

The purity of Human PDGF R alpha is greater than 95% as determined by SEC-HPLC.

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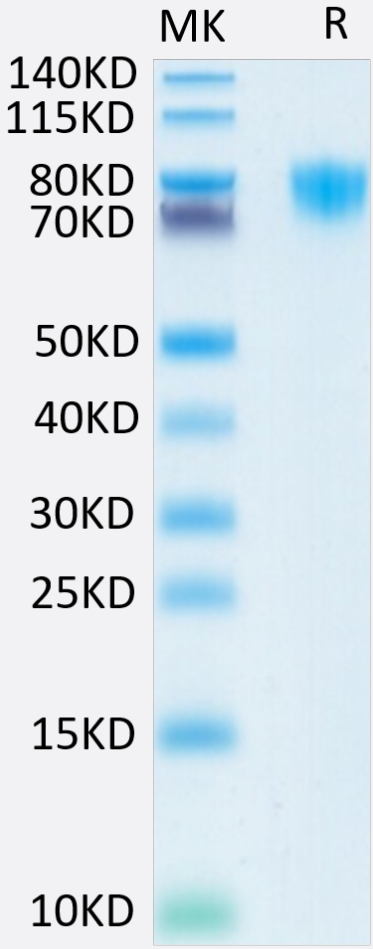

Tris-Bis PAGE

Human PDGF R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human PDGFRA (P16234, Gln24-Glu524) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Gln24-Glu524
Host	Human
Theoretical MW (kDa)	59.2
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)

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Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human PDGF R alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PDGF R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human PDGF R alpha, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-PDGF R alpha Antibody, hFc Tag with the EC_{50} of 4.6 ng/ml determined by ELISA.

Gene Info — PDGFRA

Entrez GeneID	5156
Protein Accession#	P16234
Gene Name	PDGFRA
Gene Alias	CD140A, MGC74795, PDGFR2, Rhe-PDGFRA
Gene Description	platelet-derived growth factor receptor, alpha polypeptide
Omim ID	173490 606764 607685
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. [provided by RefSeq
Other Designations	FIP1L1/PDGFRA fusion protein|platelet-derived growth factor receptor alpha|rearranged-in-hyper eosinophilia-platelet derived growth factor receptor alpha fusion protein

Pathway

- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Endocytosis
- Focal adhesion
- Gap junction
- Glioma
- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Aneuploidy

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- Asthma
- Brain Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Glioblastoma
- Hyperparathyroidism
- Leukemia
- Liver Neoplasms
- Lymphatic Metastasis
- Malignant melanoma
- Meningomyelocele
- Metabolic Syndrome X
- Neoplasm Recurrence
- Neoplasms

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- Neural Tube Defects
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms
- Spinal Dysraphism
- Subdural Effusion
- Tobacco Use Disorder
- Tooth Abnormalities
- Uterine Cervical Neoplasms
- Vitiligo

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