PDGFRA (Human) Recombinant Protein

Catalog # P9017 Size 5 ug

Specification

Product Description	Human PDGFRA (P16234, 24 a.a. - 524 a.a.) partial-length recombinant protein with His tag at N-Terminus expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMQLSLPSILPNENEKVVQLNSSFSLRCFGESEVSWQYPMSEEE SSDVEIRNEENNSGLFVTVLEVSSASAAHTGLYTCYYNHTQTEENELEGRHIYIYVPDPDVAFVPLG MTDYLVIVEDDDSAIIPCRTTDPETPVTLHNSEGVVPASYDSRQGFNGTFTVGPYICEATVKGKKF QTIPFNVYALKATSELDLEMEALKTVYKSGETIVVTCAVFNNEVVDLQWTYPGEVKGKGITMLEEIK VPSIKLVYTLTVPEATVKDSGDYECAARQATREVKEMKKVTISVHEKGFIEIKPTFSQLEAVNLHEV KHFVVEVRAYPPPRISWLKNNLTLIENLTEITTDVEKIQEIRYRSKLKLIRAKEEDSGHYTIVAQNEDA VKSYTFELLTQVPSSILDLVDDHHGSTGGQTVRCTAEGTPLPDIEWMICKDIKKCNNETSWTILANN VSNIITEIHSRDRSTVEGRVTFAKVEETIAVRCLAKNLLGAENRELKLVAPTLRSE.
Host	Escherichia coli
Theoretical MW (kDa)	58.4
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 85% by SDS PAGE
Storage Buffer	20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 20% glycerol.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- SDS-PAGE

Gene Info — PDGFRA

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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
Gene Summary	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived gro wth 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 RefSe q
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

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- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Aneuploidy
- 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

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- Hyperparathyroidism
- Leukemia
- Liver Neoplasms
- Lymphatic Metastasis
- Malignant melanoma
- Meningomyelocele
- Metabolic Syndrome X
- Neoplasm Recurrence
- Neoplasms
- 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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