

Recombinant Human PDGFRA protein, His-tagged

Cat. No. PDGFRA-3181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGFRA (Gln24-Ala528) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
Protein Length	Gln24-Ala528
Description	PDGFRA(platelet-derived growth factor receptor A), also termed PDGFR α (platelet-derived growth factor receptor α), is a receptor located on the surface of a wide range of cell types. This receptor binds to certain isoforms of platelet-derived growth factors (PDGFs) and thereby becomes active in stimulating cell signaling pathways that elicit responses such as cellular growth and differentiation. The receptor is critical for the development of certain tissues and organs during embryogenesis and for the maintenance of these tissues and organs, particularly hematologic tissues, throughout life. Mutations in the gene which codes for PDGFRA, are associated with an array of clinically significant neoplasms.
Predicted N Terminal	Gln24
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 58.4 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	<p>It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.</p>

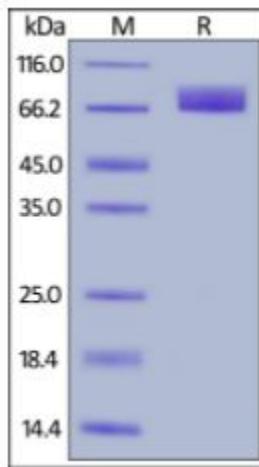
GENE INFORMATION

Gene Name	PDGFRA
Official Symbol	PDGFRA
Synonyms	PDGFRA; platelet-derived growth factor receptor, alpha polypeptide; platelet-derived growth factor receptor alpha; CD140a; PDGFR2; PDGFR-alpha; PDGF-R-alpha; CD140a antigen; PDGFRA/BCR fusion; CD140 antigen-like family member A; platelet-derived growth factor receptor 2; alpha-type platelet-derived growth factor receptor; rearranged-in-hypereosinophilia-platelet derived growth factor receptor alpha fusion protein; CD140A; PDGFR-2; RHEPDGFRA; MGC74795
Gene ID	5156
mRNA Refseq	NM_006206

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Protein Refseq
[NP_006197](https://www.ncbi.nlm.nih.gov/protein/NP_006197)
MIM
[173490](https://www.ncbi.nlm.nih.gov/variation/173490)
UniProt ID
[P16234](https://www.uniprot.org/uniprot/P16234)
**SDS-PAGE of
PDGFRA-3181H**


Human PDGF R alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



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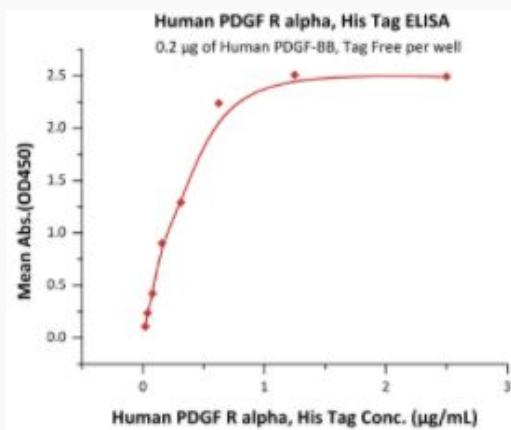

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For Research Use Only

**Bioactivity-ELISA of
PDGFRA-3181H**

Immobilized Human PDGF-BB, Tag Free at 2 µg/mL (100 µL/well) can bind Human PDGF R alpha, His Tag with a linear range of 0.02-0.625 µg/mL (QC tested).