

# Recombinant human PDGF R alpha protein

Catalog Number: ATGP1153

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-524aa

### UniProt No.

P16234

### NCBI Accession No.

NP\_006197

### Alternative Names

Platelet-derived growth factor receptor alpha precursor, CD140A, PDGFR2, MGC74795, Rhe-PDGFRA

## PRODUCT SPECIFICATION

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### Molecular Weight

58.4 kDa (522aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PDGFRA, also known as platelet derived growth factor receptor alpha, is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. This protein can bind to both A and B subunits of PDGF. It is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. Recombinant human PDGFRA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

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## Amino acid Sequence

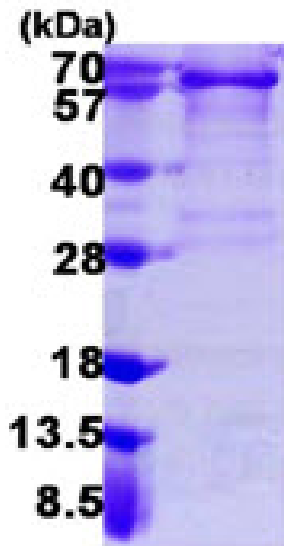
MGSSHHHHHH SSGLVPRGSH MQLSLPSILP NENEKVVQLN SSFSLRCFGE SEVSWQYPMS EEESDVEIR NEENNSGLFV  
TVLEVSSASA AHTGLYTCYY NHTQTEENEL EGRHIYIYVP DPDVAFVPLG MTDYLVIVED DDSAIIPCRT TDPETPVTLH  
NSEGVVPASY DSRQGFNGTF TVGPYICEAT VKGKKFQTIP FNVYALKATS ELDLEMEALK TVYKSGETIV VTCAVFNNEV  
VDLQWYTPGE VKGKGITMLE EIKVPSIKLV YTLTVPEATV KDSGDYECOA RQATREVKEM KKVTISVHEK GFIEIKPTFS  
QLEAVNLHEV KHVVVEVRAY PPRISWLKN NLTLIENLTE ITTDVEKIQE IRYRSKLLI RAKEEDSGHY TIVAQNEDAV  
KSYTFELLTQ VPSSILDLVD DHHGSTGGQT VRCTAEGTPL PDIEWMICKD IKKCNNETSW TILANNVSN IITEIHSRDRS  
TVEGRVTFKA VEETIAVRCL AKNLLGAENR ELKLVAPTLR SE

## General References

Yu J. et al. (2000) J Biol Chem. 275: 19076-82  
Xie J. et al. (2001). Proc. Natl. Acad. Sci. uSA 98: 9255-59

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)