

Recombinant human PDGF R beta protein

Catalog Number: ATGP3721

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

33-532aa

UniProt No.

P09619

NCBI Accession No.

NP_002600

Alternative Names

Platelet-derived growth factor receptor beta, PDGFRB, CD140B, IBGC4, IMF1, JTK12, KOGS, PDGFR, PDGFR-1, PDGFR1, PENTT

PRODUCT SPECIFICATION

Molecular Weight

83.3 kDa (739aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-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

Description

PDGFRB, also known as platelet-derived growth factor receptor beta, is a member of the class III subfamily of receptor tyrosine kinases (RTK) that also includes the receptors for M-CSF, SCF and Flt3-ligand. It plays an essential role in blood vessel development by promoting proliferation, migration and recruitment of pericytes

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and smooth muscle cells to endothelial cells. It promotes rearrangement of the actin cytoskeleton and the formation of membrane ruffles. It phosphorylates PLCG1, PIK3R1, PTPN11, RASA1/GAP, CBL, SHC1 and NCK1. Recombinant human PDGFRB, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

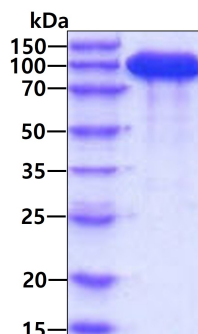
LVVTPPGPEL VLNVSSTFVL TCSGSAPVVW ERMSQEPPQE MAKAQDGTFS SVLTLTNLTG LDTGEYFCTH NDSRGLETDE
RKRLYIFVPD PTVGFLPND A EELFIFLTEI TEITIPCRVT DPQLVVTLHE KKG DVALPVP YDHQRGFSGI FEDRSYICKT
TIGDREVDSD AYYVYRLQVS SINVS VNAVQ TVVRQGENIT LMCIVIGNEV VNFEWTPRK ESGRLVEPVT DFLLDMPYHI
RSILHIPSAE LEDSGTYTCN VTESVNDHQD EKAINITVVE SGYVRLLEGEV GTLQFAELHR SRTLQVVFEA YPPPTVLWFK
DNRTLGDSSA GEIALSTRNV SETRYVSELT LVRVKVAEAG HYTMRAFHEA AEVQLSFQLQ INVPVRVLEL SESHPSDGEQ
TVRCRGRGMP QPNIWSACR DLKRCPRELP PTLLGNSSEE ESQLETNVTY WEEQEFEV STLRQLQHVDR PLSVRCTLRN
AVGQDTQEVV VVPHSLPFKV <LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK
FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS
RDELTKNQVS LTCLVKGFYP SDIAVEWESN GPENNYKTT PPVLDSGDSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN
HYTQKSLSL S PGKHHHHHH>

General References

Kelly JD., et al. (1991) J Biol Chem. 266:8987-8992.
Kashishian A., et al. (1992) EMBO J. 11:1373-1382.

DATA

SDS-PAGE



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