
Product Data Sheet

Product Name: PDGFRB Human
 Cat. No.: GP20824
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms

Platelet-derived growth factor receptor beta; PDGF-R-beta; PDGFR-beta; Beta platelet-derived growth factor receptor; Beta-type platelet-derived growth factor receptor; CD140 antigen-like family member B; Platelet-derived growth factor receptor 1; PDGFR-1; CD140b; PDGFRB; Beta Platelet-Derived Growth Factor Receptor; Activated Tyrosine Kinase PDGFRB; CD140b AntigenNDEL1-PDGFRB; EC 2.7.10; CD140B; IBGC4; JTK12; PENTT; IMF1; KOGS; Platelet Derived Growth Factor Receptor Beta; Platelet-Derived Growth Factor Receptor; Beta Polypeptide; Beta-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 1; CD140; Antigen-Like Family Member B; PDGF-R-Beta; EC 2.7.10.1; PDGFR-Beta; PDGFR-1; PDGFR1; PDGFR;Platelet-Derived Growth Factor Receptor Beta.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Amino Acid
Sequence

LVVTPPGPEL VLNVSSTFVL TCSGSAPVWV ERMSQEPPQE MAKAQDGTFS
SVLTLTNLTG LDTGEYFCTH NDSRGLETDE RKRLYIFVPD PTVGFLPNDA
EELFIFLTEI TEITIPCRVT DPQLVVTLHE KKG DVALPVP YDHQRGFSGI
FEDRSYICKT TIGDREVSDS AYYVYRLQVS SINVSVNAVQ TVVRQGENIT
LMCIVIGNEV VNFETYPRK ESGRLVEPVT DFLLDMPYHI RSILHIPSAE
LEDSGTYTCN VTESVNDHQD EKAINITVVE SGYVRLGGEV GTLQFAELHR
SRTLQVVFEA YPPPTVLWFK DNRTLGDSSA GEIALSTRNV SETRYVSELT
LVRVKVAEAG HYTMRAFHEA AEVQLSFQLQ INVPRVLEL SESHPPDSGEQ
TVRCRGRGMP QPNIIWSACR DLKRCPRELP PTLGNSSEE ESQLETNVTY
WEEEQEFEVV STLRLQHVDL PLSVRCTLRN AVGQDTQEVI VVPHSLPFKV
LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV
DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL
NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS
LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK
SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGKHHHHHHH.

Formulation

PDGFRB protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Platelet-derived growth factor receptor beta (PDGFRB), belongs to the class III subfamily of receptor tyrosine kinases (RTK) which also consist of the receptors for Flt3-ligand, SCF and M-CSF. PDGFRB takes a vital part in blood vessel development by promoting growth, migration as well as recruitment of pericytes and smooth muscle cells to endothelial cells. PDGFRB helps in rearrangement of the actin cytoskeleton in addition the formation of membrane ruffles. PDGFRB phosphorylates, NCK1, PIK3R1, PTPN11, CBL, SHC1, RASA1/GAP and PLCG1.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. 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.

Background

PDGFRB produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 739 amino acids (33-532a.a.) and having a molecular mass of 83.3kDa

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(Molecular size on SDS-PAGE will appear at approximately 100-150kDa).PDGFRB is expressed with an 239 amino acid hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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