

## PDGF-AB active protein

Human PDGF-AB

|                              |                       |                            |
|------------------------------|-----------------------|----------------------------|
| CATALOG #<br><b>AAA79242</b> | HOST<br><b>E Coli</b> | REACTIVITY<br><b>Human</b> |
|------------------------------|-----------------------|----------------------------|

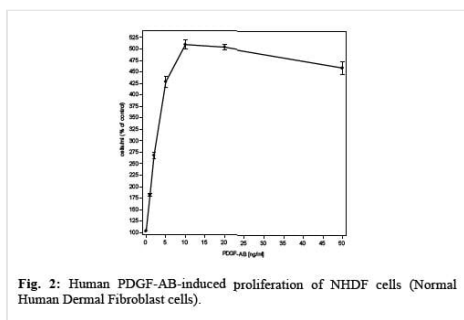
### PRODUCT SYNONYMS

PDGF-AB; Human PDGF-AB; Recombinant Human Platelet-Derived Growth Factor-AB; Platelet-derived growth factor B chain; PDGF2; Proto-oncogene c-Sis; PDGF-AB active protein

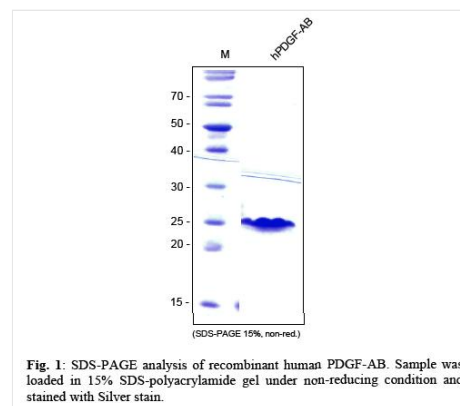
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                               |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                |
| Purity/Purification     | > 95% by SDS-PAGE & silver stain                                                                                                                                                                                                                                                                     |
| Form/Format             | Lyophilized                                                                                                                                                                                                                                                                                          |
| Sequence                | Alphachain :MSIEEAVPA VCKTRTVIYE IPRSQVDPTS ANFLIWPPCV EVKRCCTGCCN TSSVKCQPSR<br>VHHRSVKVAK VEYVRKKPKL KEVQVRLEEH LECACATTSL NPDYREEDTG RPRESGKKRK RKRLKPTBet<br>achain:MSL GSLTIAEPAM IAECKTRTEV FEISRRLIDR TNANFLVWPP CVEVQRCSCG CNNRNVQCRP<br>TQVQLRPVQV RKIGIVRKKP IFKKATVTLG DHLACKCETV AAARPVT |
| Sequence Length         | 126, 110                                                                                                                                                                                                                                                                                             |
| Endotoxin Level         | < 0.1ng per ug of PDGF-AB                                                                                                                                                                                                                                                                            |
| Buffer                  | 50 mM acetic acid                                                                                                                                                                                                                                                                                    |
| Preparation and Storage | The lyophilized PDGF-AB is stable for a few weeks at room temperature, but best stored at -20 degree C. Reconstituted PDGF-AB is best stored at -20 degree C to -70 degree C. Avoid repeated freeze-thaw cycles.                                                                                     |

### IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

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|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PDGF-AB active protein | DGFs are stored in platelet alpha-granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-AB is a 25.5 kDa disulfide-linked dimer, consisting of one A chain and one B chains (234 total amino acids). |
| Product Categories/Family for PDGF-AB active protein   | Cytokines & Growth Factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| References                                             | 1. Fredriksson L et al, Cytokine Growth Factor Rev 15:197-204, 2004 2. Heldin CH et al, Br J Cancer 57:591-3, 1988 3. Deuel TF et al, Biofactors 1:213-7, 1988 4. Meyer-Ingold and Eichner W, Cell Biol Int 19:389-98, 1995 5. Betsholtz C and Raines EW, Kidney Int 51:1361-9, 1997 6. Kaetzel DM, Cytokine Growth Factor Rev 14:427-46, 2003 7. Simm A et al, Basic Res Cardiol Suppl 3:40-3, 1998                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 77695917                                                                                                                                                                                                                         |
| NCBI GeneID                      | 5154                                                                                                                                                                                                                             |
| NCBI Accession #                 | NP_002599.1                                                                                                                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_002608.2                                                                                                                                                                                                                      |
| UniProt Accession #              | P01127; B5BU73; P04085                                                                                                                                                                                                           |
| Molecular Weight                 | 25,5 kDa                                                                                                                                                                                                                         |
| NCBI Official Full Name          | platelet-derived growth factor subunit A isoform 1 preproprotein                                                                                                                                                                 |
| NCBI Official Synonym Full Names | platelet-derived growth factor alpha polypeptide                                                                                                                                                                                 |
| NCBI Official Symbol             | PDGFA                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | PDGF1; PDGF-A                                                                                                                                                                                                                    |
| NCBI Protein Information         | platelet-derived growth factor subunit A; PDGF-1; PDGF A-chain; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha isoform 2 preproprotein |
| UniProt Protein Name             | Platelet-derived growth factor subunit A                                                                                                                                                                                         |
| UniProt Gene Name                | PDGFA                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | PDGF1; PDGF subunit A                                                                                                                                                                                                            |
| UniProt Entry Name               | PDGFA_HUMAN                                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.