

PDGF-AA active protein

Human PDGF-AA

CATALOG # AAA79247	HOST E Coli	REACTIVITY Human
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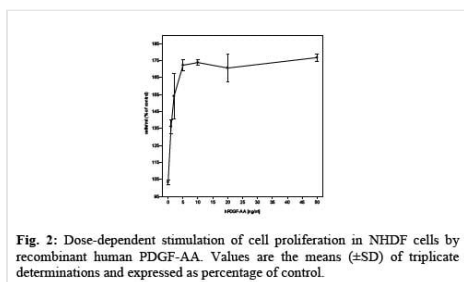
PRODUCT SYNONYMS

PDGF-AA; Human PDGF-AA; Recombinant Human Platelet-Derived Growth Factor-AA; Platelet-derived growth factor A chain; PDGF1; PDGF-AA active protein

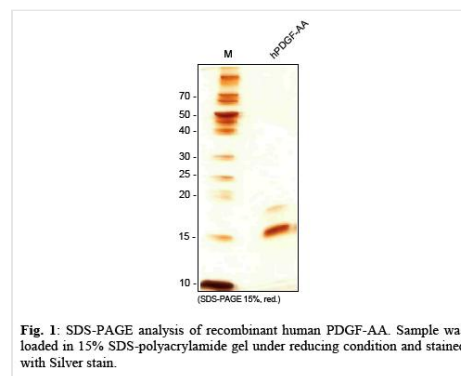
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:U NDERWORK!
Sequence Length	125
Endotoxin Level	< 0.1ng per ug of PDGF-AA
Buffer	50 mM acetic acid
Preparation and Storage	The lyophilized PDGF-AA is stable for a few weeks at room temperature, but best stored at -20 degree C. Reconstituted PDGF-AA is best stored at -20 degree C to -70 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PDGF-AA active protein	PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs 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-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids).
Product Categories/Family for PDGF-AA 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_002598.5
NCBI GenBank Nucleotide #	NM_002607.5
UniProt Accession #	P04085; B5BU73
Molecular Weight	28,5 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.