

Platelet Derived Growth Factor-AA Active Protein | PDGF AA active protein

Recombinant Human Platelet Derived Growth Factor-AA, Yeast

CATALOG #
AAA38597

HOST
Pichia Pastoris

PRODUCT SYNONYMS

Platelet Derived Growth Factor-AA; Recombinant Human Platelet Derived Growth Factor-AA; Yeast; PDGF AA Human; Platelet-derived Growth Factor AA Human Recombinant; Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF; PDGF-AA; PDGF-1; PDGF AA Yeast; PDGF AA active protein

PRODUCT SPECIFICATIONS

Host	Pichia Pastoris
Purity/Purification	Greater than 98.0% as determined by SDS-PAGE.
Form/Format	The protein was lyophilized with 20mM sodium phosphate buffer. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence Length	211
Solubility	It is recommended to reconstitute the lyophilized PDGF-AA in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 was found to be 1ng/ml corresponding to a Specific Activity of 1,000,000IU/mg calculated by the ability to stimulate the proliferation of mouse 3T3 fibroblasts (PNAS 94, 10205, 1997. Biochemistry, 1996, 35, 12077).
Preparation and Storage	Lyophilized PDGF-AA although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution PDGF-AA should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PDGF AA active protein	Description: PDGF-AA Human Recombinant produced in Yeast is a homodimeric, glycosylated, polypeptide chain containing 2 x 110 amino acids and having a total molecular mass of 34 kDa. PDGF-AA is purified by proprietary chromatographic techniques. Introduction: 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 PDGF is stored in platelet alpha-granules and released upon platelet activation. The PDGF is 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 PDGF 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.
Product Categories/Family for PDGF AA active protein	Cytokines and Growth Factors ; Growth Factors ; PDGF

NCBI AND UNIPROT INFORMATION

NCBI GI #	77695917
NCBI GeneID	5154
NCBI Accession #	NP_002598.4

NCBI GenBank Nucleotide #	NM_002607.5
UniProt Accession #	P04085; B5BU73
Molecular Weight	22,253 Da
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 A-chain; PDGF subunit A; PDGF-1; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pichia-pastoris-pdgf-aa-active-protein/platelet-derived-growth-factor-aa/38597>