

Platelet Derived Growth Factor Subunit A (PDGFA) Active Protein | PDGFA active protein

Active Platelet Derived Growth Factor Subunit A (PDGFA)

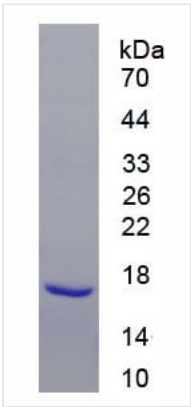
CATALOG # AAA149234	HOST Host: E Coli Source: Prokaryotic Expression	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

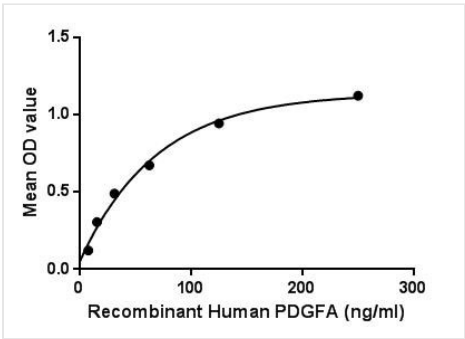
Platelet Derived Growth Factor Subunit A (PDGFA); Active Platelet Derived Growth Factor Subunit A (PDGFA); PDGF-A; PDGF1; Platelet Derived Growth Factor Alpha Polypeptide; PDGFA active protein

PRODUCT SPECIFICATIONS

Host	Host: E Coli Source: Prokaryotic Expression
Purity/Purification	> 90%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Ser87~Thr211
Sequence Length	211
Applicable Applications for PDGFA active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His-Tag
Isoelectric Point	9.6
Subcellular Location	Extracellular Region or Secreted
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE



Activity
Platelet Derived Growth Factor Subunit A (PDGFA) is a member of Platelet-derived growth factor (PDGF) family which plays a significant role in blood vessel formation, the growth of blood vessels from already-existing blood vessel tissue, mitogenesis, i.e. proliferation, of mesenchymal cells such as fibroblasts, osteoblasts, tenocytes, vascular smooth muscle cells and mesenchymal stem cells as well as chemotaxis, the directed migration, of mesenchymal cells. Besides, Platelet Derived Growth Factor Receptor Alpha (PDGFRa) has been identified as an interactor of PDGFA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PDGFA and recombinant human PDGFRa. Briefly, PDGFA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μl were then transferred to PDGFRa-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-PDGFA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of PDGFA and PDGFRa was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of PDGFA with PDGFRa.

ADDITIONAL INFORMATION

Product Categories/Family for PDGFA active protein	Cytokine; Tumor immunity; Infection immunity; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	77695917
NCBI GeneID	5154
NCBI Accession #	NP_002598.4
NCBI GenBank Nucleotide #	NM_002607.5
UniProt Accession #	P04085
Molecular Weight	Predicted MW: 17.4kDa Accurate MW: 17kDa
NCBI Official Full Name	platelet-derived growth factor subunit A isoform 1 preproprotein
NCBI Official Synonym Full Names	platelet derived growth factor subunit A
NCBI Official Symbol	PDGFA
NCBI Official Synonym Symbols	PDGF1; PDGF-A
NCBI Protein Information	platelet-derived growth factor subunit A
UniProt Protein Name	Platelet-derived growth factor subunit A
UniProt Gene Name	PDGFA
UniProt Synonym Gene Names	PDGF1; PDGF subunit A

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/platelet-derived-growth-factor-subunit-a-pdgfa/149234>