

PIGF-1/PGF active protein

Recombinant human PIGF-1/PGF protein

CATALOG # AAA48993	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

PIGF-1/PGF; Recombinant human PIGF-1/PGF protein; Placenta growth factor; PIGF; PGF; PGFL; PLGF; placenta growth factor isoform 2; PIGF-1/PGF active protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	19-149aa
Sequence	Leu19 L PAVPPQQWAL SAGNGSSEVE VVPFQEVWGR SYCRALERLV DVVSEYPSEV EHMFPSPSCVS LLRCTGCCGD ENLHCVPVET ANVTMQLLKI RSGDRPSYVE LTFSQHVRCR CRPLREKMKP ERCGDAVPRR
Applicable Applications for PIGF-1/PGF active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for PIGF-1/PGF active protein	Placenta growth factor (PIGF/PGF) is a member of the PDGF/VEGF-sub-family-a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. There are three isoforms of this protein: PIGF-1, PIGF-2, PIGF-3. PIGF-2 is only found in early placenta up until the 8th week of development, while PIGF-1 is specifically found in the colon as well as mammary carcinomas. PIGF induces monocyte activation, migration, and production of inflammatory cytokines and VEGF. Also, PIGF is ultimately associated with angiogenesis. These activities facilitate wound, bone fracture, and cardiac repair, but also contribute to inflammation in active sickle cell disease and atherosclerosis. Recombinant human PIGF-1/PGF, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for PIGF-1/PGF active protein	Angiogenesis, Cardiovascular ; Proteins
References	Hauser, S. and H.A. Weich (1993) Growth Factors. 9:259-268. Maglione, D., et al, (1993) Oncogene. 8:925-931. Roncal, C., et al, (2010) Cardiovasc. Res. 86:29-36.

NCBI AND UNIPROT INFORMATION

NCBI GI #	333033785
NCBI GeneID	5228
NCBI Accession #	NP_001193941.1
NCBI GenBank Nucleotide #	NM_001207012.1
UniProt Accession #	P49763; Q07101; Q9BV78; Q9Y6S8
Molecular Weight	24,789 Da
NCBI Official Full Name	placenta growth factor isoform 2
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	PGF
NCBI Official Synonym Symbols	PGFL; PLGF; PIGF-2; D12S1900; SHGC-10760
NCBI Protein Information	placenta growth factor; placental growth factor, vascular endothelial growth factor-related protein
UniProt Protein Name	Placenta growth factor
UniProt Gene Name	PGF
UniProt Synonym Gene Names	PGFL; PLGF; PIGF
UniProt Entry Name	PLGF_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.

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Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/plgf-1-pgf/48993>