

Recombinant Human Placental Growth Factor

Cat. No. PGF-607H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PGF is a 29.7 kDa homodimeric protein consisting of two 131 amino acid polypeptide chains.
Species	Human
Source	E.coli
Description	PGF is an angiogenic factor that belongs to the cysteine-knot superfamily of growth factors. PGF is expressed in placental tissues, colon and mammary carcinomas. It signals through the VEGFR-1/FLT1 receptor and stimulates endothelial cell proliferation and migration. Recombinant human PGF-1 is a 29.7 kDa disulfide-linked homodimeric protein of two 131 amino acid polypeptide chains.
Biological Activity	Determined by its ability to chemoattract human monocytes of using a concentration range of 0.5-10 ng/ml.
Molecular Weight	29.7 kDa
Form	Sterile filtered and lyophilized in a solution containing BSA.
Endotoxin Level	<0.1 ng/μg
Reconstitution	Reconstitute the protein in sterile 20 mM acetic acid to a concentration of 0.1-1.0 μg/μl. The solution can then be diluted into other aqueous buffer.

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Appearance	Lyophilized protein
Purity	≥95% by SDS-PAGE and ≥95% by HPLC
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted protein should be stored at working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA). Prevent freeze/thaw cycles.

GENE INFORMATION

Gene Name	PGF placental growth factor [Homo sapiens]
Official Symbol	PGF
Synonyms	PGF; placental growth factor; PGFL; PLGF; PIGF-2; D12S1900; SHGC-10760; placenta growth factor; placental growth factor-like; placental growth factor, vascular endothelial growth factor-related protein
Gene ID	5228
mRNA Refseq	NM_001207012
Protein Refseq	NP_001193941
MIM	601121
UniProt ID	P49763
Chromosome Location	14q24.3

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Pathway	Bladder cancer; Focal Adhesion; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; Rheumatoid arthritis; Signaling by VEGF; VEGF binds to VEGFR leading to receptor dimerization; VEGF ligand-receptor interactions; VEGFR1 specific signals; mTOR signaling pathway
Function	growth factor activity; heparin binding
PDB rendering based on 1rv6.	

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