

## Recombinant Human Placental Growth Factor

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PGF is a 29.7 kDa homodimeric protein consisting of two 131 amino acid polypeptide chains.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Biological Activity</b>	Determined by its ability to chemoattract human monocytes of using a concentration range of 0.5-10 ng/ml.
<b>Molecular Weight</b>	29.7 kDa
<b>Form</b>	Sterile filtered and lyophilized in a solution containing BSA.
<b>Endotoxin Level</b>	<0.1 ng/μg
<b>Reconstitution</b>	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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<b>Appearance</b>	Lyophilized protein
<b>Purity</b>	≥95% by SDS-PAGE and ≥95% by HPLC
<b>Storage</b>	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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PGF placental growth factor [ Homo sapiens ]
<b>Official Symbol</b>	PGF
<b>Synonyms</b>	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
<b>Gene ID</b>	5228
<b>mRNA Refseq</b>	NM_001207012
<b>Protein Refseq</b>	NP_001193941
<b>MIM</b>	601121
<b>UniProt ID</b>	P49763
<b>Chromosome Location</b>	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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