

Recombinant Mouse Placental Growth Factor

Cat. No. Pgf-606M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Pgf is a 32.6 kDa homodimeric protein consisting of two 142 amino acid polypeptide chains.
Species	Mouse
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.
Biological Activity	Determined by its ability to chemoattract human monocytes of using a concentration range of 0.5-10 ng/ml.
Molecular Weight	32.6 kDa
Form	Sterile filtered and lyophilized without additives.
Endotoxin Level	<0.1 ng/μg
Appearance	Lyophilized protein
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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity >98% 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 [*Mus musculus*]

Official Symbol Pgf

Synonyms Pgf; placental growth factor; PIGF; Plgf; AI854365; placenta growth factor

Gene ID 18654

mRNA Refseq NM_008827

Protein Refseq NP_032853

UniProt ID P49764

Chromosome Location 12 D

Pathway Bladder cancer; Focal Adhesion; 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; mTOR signaling pathway

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Function

growth factor activity; protein heterodimerization activity

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