

Recombinant Human Placental Growth Factor

Cat. No. PGF-97H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Placenta Growth Factor-1 produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 131 amino acids and having a total molecular mass of 29.7 kDa. The PLGF-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Insect Cells
Description	PLGF is a growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration. It binds to receptor vegfr-1/flt1.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1 mg/ml) solution containing BSA.
Solubility	It is recommended to reconstitute the lyophilized Placenta Growth Factor 1 in sterile 20 mM acetic acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Specific Activity	The ED ₅₀ as determined by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. PIGF-1 human Recombinant can bind to immobilized rh-sFlt-1 (100 ng/well)

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with a linear range at 0.5 – 10 ng/mL.

Stability

Lyophilized Placenta Growth Factor 1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PLGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

PGF placental growth factor [Homo sapiens]

Synonyms

PGF; placental growth factor; PGFL; PLGF; PIGF-2; D12S1900; SHGC-10760; placental growth factor, vascular endothelial growth factor-related protein; placental growth factor-like; PIGF; factor-related protein

Gene ID

5228

mRNA Refseq

NM_002632

Protein Refseq

NP_002623

MIM

601121

UniProt ID

P49763

**Chromosome
Location**

14q24-q31

Pathway

Bladder cancer; Cytokine-cytokine receptor interaction; Focal adhesion; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; mTOR signaling pathway

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Function

growth factor activity; heparin binding; protein binding; protein heterodimerization activity; protein homodimerization activity

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