

Recombinant Human Placental Growth Factor

Cat. No. PGF-98H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Placenta Growth Factor-2 produced in <i>insect cells</i> is a homodimer, glycosylated polypeptide chain containing 2 x 152 amino acids and having a total molecular mass of 44 kDa. The PLGF-2 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. PLGF-2 binds neuropilin-1 and 2 in a heparin-dependent manner.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 80.0% 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 2 in sterile 20 mM acetic acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Specific Activity	PIGF-2 human Recombinant can bind to immobilized rh-sFlt-1 (100 ng/well) with a

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

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linear range at 0.3 – 10 ng/mL.

Stability

Lyophilized Placenta Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PLGF2 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; PLGF; PIGF-2; PIGF; PGFL; D12S1900; SHGC-10760; Placenta growth factor; Placental growth factor; Factor-related protein; Placental growth factor-like; Placental growth factor, vascular endothelial growth; Placental growth factor, vascular endothelial growth 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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