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### Certificate of Analysis and Data Sheet

# Recombinant Human Placenta Growth Factor-1

**Catalog No.**  
228-11279

**Source**  
*Insect Cells*

#### ***Introduction***

PLGF is a growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration. It binds to receptor vegfr-1/flt1.

#### ***Description***

Placenta Growth Factor-1 Human Recombinant produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 131 amino acids and having a total molecular mass of approximately 34 kDa. The PLGF-1 is purified by proprietary chromatographic techniques.

#### ***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***

Each mg contains 50mg BSA.

#### ***Solubility***

It is recommended to reconstitute the lyophilized Placenta Growth Factor 1 in sterile 20mM acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

#### ***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.**

#### ***Amino acid sequence***

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Ala-Val.

#### ***Biological Activity***

The ED50 as determined by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. PLGF-1 human Recombinant can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.5 - 10 ng/mL.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**