



## Placenta Growth Factor-1, human recombinant (rHuPLGF-1)

**Catalog No:** 87406  
**Lot No:** XXXXX  
**Source:** Insect cells  
**Synonyms:** PIGF, PGF, PLGF-1, PIGF-2

### Background

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. PLGF-1 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a concentrated (1 mg/ml) solution containing 50 mM acetic acid.

### Solubility

It is recommended to reconstitute the lyophilized Placenta Growth Factor 1 in sterile 0.1 M acetic acid or PBS not less than 100 µg/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.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### 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.

### Activity

The ED50 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) with a linear range at 0.5 - 10 ng/ml, corresponding to a specific activity of  $1 \times 10^5$  -  $2 \times 10^6$  units/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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