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# Certificate of Analysis and Data Sheet Recombinant Human Placenta Growth Factor-2

### Catalog No.

228-11280

### Source

*Insect Cells*

### Synonyms

PIGF, PGF, PIGF-2, PLGF-2.

### 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.

PLGF-2 binds neuropilin-1 and 2 in a heparin-dependent manner.

### Description

Placenta Growth Factor-2 Human Recombinant produced in insect cells 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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a concentrated (1mg/ml) solution containing BSA.

### Solubility

It is recommended to reconstitute the lyophilized Placenta Growth Factor 2 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-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.**

### Purity

Greater than 80.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

### Biological Activity

PIGF-2 human Recombinant can bind to immobilized rh-sFlt-1 (100ng/well) with a linear range at 0.3 – 10ng/mL.

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