

**Product:** Placenta Growth Factor-1, human, recombinant  
**Catalog #:** 11-PLGF-1H  
**Amount:** 5 µg

---

**DESCRIPTION:** Recombinant Human PLGF-1 also called PIGF, PGF 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 sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Ala-Val  
The rHuPLGF-1 is purified by proprietary chromatographic techniques

**SOURCE:** *Insect cells*

**PURITY:** Greater than 90.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC

**DIMERS & AGGREGATES:** <1% as determined by silver stained SDS-PAGE gel analysis

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuPLGF-1

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1) UV spectroscopy at 280 nm.  
2) Analysis by RP-HPLC, using a standard solution of PLGF-1 as a Reference Standard.

**FORM:** Purified

**STORAGE:** -20°C, avoid freezing and thawing cycles after reconstitution

**BIOLOGICAL ACTIVITY:** rHuPLGF-1 is fully biologically active when compared to standard.  
The ED50 as determined by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant human PIGF-1 can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.5 – 10 ng/mL

This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.