

Recombinant Human Placenta Growth Factor-1 (rh PLGF-1)

Synonyms: PGF-1

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: Recombinant human PLGF-1 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.

Source: *Insect Cells*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated (1mg/ml) solution containing no additives. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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 rh PLGF-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh PLGF-1 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 90.0% as determined by RP-HPLC and 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.

Biological 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.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11344292
<i>medium</i>	10 µg	Cat.N°	11344293
<i>large</i>	50 µg	Cat.N°	11344295

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Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com