

Active Recombinant Human PGF Protein

Cat. No. PIGF-261H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human placenta growth factor-1 produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 131 amino acids. The PLGF-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Insect Cells
Description	This gene encodes a growth factor found in placenta which is homologous to vascular endothelial growth factor. Alternatively spliced transcripts encoding different isoforms have been found for this gene.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-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 (100ng/well) with a linear range at 0.5-10ng/ml, corresponding to a Specific Activity of 1×10^5 - 2×10^6 units/mg.
Molecular Mass	34 kDa
N-terminal Sequence Analysis	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Ala-Val.
Purity	Greater than 95.0% as determined by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Usage	This products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Storage	Lyophilized Placenta Growth Factor 1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution PLGF1 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. Please prevent freeze-thaw cycles.
Storage Buffer	Lyophilized from a concentrated (1mg/ml) solution containing 50mM acetic acid.
Reconstitution	It is recommended to reconstitute the lyophilized Placenta Growth Factor 1 in sterile 0.1M acetic acid not less than 100 g/mL, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	PGF
Official Symbol	PGF placental growth factor [Homo sapiens (human)]
Synonyms	PGF; placental growth factor; PGFL; PIGF; PLGF; PIGF-2; D12S1900; SHGC-10760; placenta growth factor; placental growth factor, vascular endothelial growth factor-related protein
Gene ID	5228
mRNA Refseq	NM_002632
Protein Refseq	NP_002623

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MIM	601121
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UniProt ID	P49763
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