

Recombinant Human PGF protein

Cat. No. PGF-333H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PGF protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	152
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	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, with 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The biologically active as determined by its ability to chemoattract human monocytes using a concentration range of 5.0-50 ng/ml.
Molecular Mass	Approximately 34.6 kDa, a disulfide-linked homodimer consisting of two 152 amino acid polypeptide chains.
AA Sequence	LPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMF SPSCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIRSGDRPSYVELTFSQHVRCE CRPLREKMKPERRRPKGRGKRRREKQRPTDCHLCGDAVPRR

 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

Endotoxin	Less than 0.1 EU/μg of rHuPIGF-2 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	PGF
Official Symbol	PGF
Synonyms	PGF; placental growth factor; PGFL, placental growth factor, vascular endothelial growth factor related protein , placental growth factor like; placenta growth factor; D12S1900; PIGF; PLGF; PIGF 2; SHGC 10760; placental growth factor-like; placental growth factor, vascular endothelial growth factor-related protein; PGFL; PIGF-2; SHGC-10760;
Gene ID	5228
mRNA Refseq	NM_001207012

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Protein Refseq NP_001193941

MIM 601121

UniProt ID P49763-3

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