Recombinant Human Placental Growth Factor Reference standard

Cat. No. PGF-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The set of ampoules contains freeze-dried recombinant E. coli-derived placental growth factor (PlGF), human sequence, residues Ala 21 – Arg 149. The preparation has been assessed by measurement of its binding to Flt1 receptor.
Species	Human
Source	E.coli
ProteinLength	21-149 a.a.
Enzyme Unit	The assigned potency is 5000 units per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The standard is intended for calibration of local standards. For all practical purposes, each ampoule contains the same quantity of PlGF. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials from which it is derived have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your

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	own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.
Stability	Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.
Storage	The ampoules are shipped at ambient temperature. Unopened ampoules should be stored at -20 °C in the dark. For economy of use, it is recommended that the reconstituted solution be subdivided into several small containers and stored at, or below, -40 °C . Repeated freezing and thawing should be avoided. The ampoules do not contain bacteriostat and solutions of the ampouled material should not be assumed to be sterile Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	PGF placental growth factor [Homo sapiens];
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;

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	D12S1900; PlGF; PLGF; PlGF 2; SHGC 10760; placental growth factor-like; placental growth factor, vascular endothelial growth factor-related protein; PGFL; PlGF-2; SHGC-10760;
Gene ID	5228
mRNA Refseq	NM_001207012
Protein Refseq	NP_001193941
MIM	601121
UniProt ID	P49763
Chromosome Location	14q24.3
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Pancreatic cancer, organism-specific biosystem; Pancreatic cancer, conserved biosystem;
Function	growth factor activity; heparin binding;

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