

Human PLGF ELISA Kit | PGF elisa kit

Human PLGF PicoKine ELISA Kit

CATALOG #
AAA45221

REACTIVITY
Human

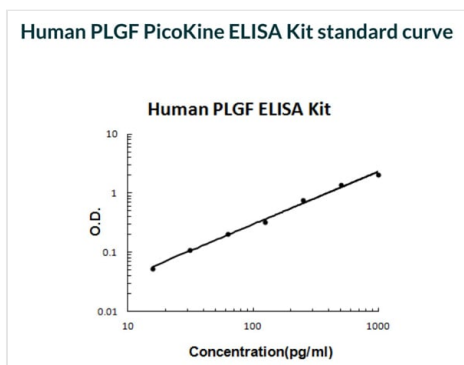
PRODUCT SYNONYMS

PLGF; Human PLGF PicoKine ELISA Kit; Placenta growth factor; placental growth factor; AI854365; D12S1900; MGC93298; Pgf; PGFL; PIGF; Placental growth factor; Placental growth factor vascular endothelial growth factor related protein; PIGF; PIGF 2; PLGF_HUMAN; PIGF2; SHGC 10760; Vascular endothelial growth factor related protein; PGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PGF
Sequence Length	221
Samples	Cell culture supernatants, serum, plasma (heparin, EDTA, citrate) and urine
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<1 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PGF elisa kit	Background: The protein, also called PGF, is 149 amino acids long and shares 53% identity with the platelet-derived growth factor-like region of human VPF. And the N-glycosylated PLGF protein is secreted into the medium and that it functions as a dimer¹. The PLGF gene is mapped to 14q24-q31. There are 3 isoforms of PGF, designated PGF1, PGF2, and PGF3. Only PGF2 is able to bind heparin. Additionally, PGF regulates inter- and intramolecular crosstalk between the VEGF receptor tyrosine kinases FLT1 and FLK12. It also can stimulate angiogenesis and collateral growth in ischemic heart and limb with at least a comparable efficiency to VEGF3. Principle of the Assay: The Picokine™ Human PGF Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human PGF with a 96-well strip plate that is pre-coated with antibody specific for PGF. The detection antibody is a biotinylated antibody specific for PGF. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human PGF with immunogen: Expression system for standard: E.coli; Immunogen sequence: A21-R149. The kit is analytically validated with ready-to-use reagents. To measure Human PGF, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human PGF in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PGF in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17380553
NCBI GeneID	5228
UniProt Accession #	P49763; Q07101; Q9BV78; Q9Y6S8
Molecular Weight	19,338 Da
NCBI Official Full Name	Placenta growth factor
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	PGF
NCBI Official Synonym Symbols	PGFL; PLGF; PIGF-2; D12S1900; SHGC-10760
NCBI Protein Information	placenta growth factor; placental growth factor, vascular endothelial growth factor-related protein
UniProt Protein Name	Placenta growth factor
UniProt Gene Name	PGF
UniProt Synonym Gene Names	PGFL; PLGF; PIGF
UniProt Entry Name	PLGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pgf-human-elisa-kits/plgf/45221>