

## Murine PIGF

Synonyms: Pgf, PIGF, Plgf, AI854365, placental growth factor

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
2 µg	4000.962.002		
5 µg	4000.962.005		
20 µg	4000.962.020		

Please enquire for bulk quantities and other vial sizes

### Description

Placenta growth factor (PIGF) is a member of the vascular endothelial growth factor (VEGF) family of growth factors. PIGF and VEGF share primary structural as well as limited amino acid sequence homology with the A and B chains of PDGF. All eight cysteine residues involved in intra and interchain disulfides are conserved among these growth factors. As a result of alternative splicing, three PIGF RNAs encoding monomeric human PIGF-1, PIGF-2 and PIGF-3 isoform precursors containing 149, 179 and 219 amino acid residues, respectively, have been described. In normal mouse tissues, only one mouse PIGF mRNA encoding the equivalent of human PIGF-2 has been identified. Murine PIGF shares 65% amino acid identity with human PIGF-2. The gene for PIGF has been mapped to mouse chromosome 12 and human chromosome 14. PIGF binds with high affinity to Flt1, but not to Flk1/KDR.

- **Source** Insect cells
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)

### Biological Activity

Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant mouse PIGF can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.5 - 10 ng/mL.

### Reconstitution

Centrifuge vial prior to opening. The lyophilised PIGF is supplied in lyophilized form with carrier-protein (BSA) and can be reconstituted with 50mM acetic acid or PBS/water. This solution can be diluted into other buffered solutions or stored frozen for future use.

### Amino Acid Sequence

ALSAGNNSTE VEVVPFNEVW GRSYCRPMEK LVYILDEYPD EVSHIFSPSC VLLSRCSGCC GDEGLHCVPI  
KTANITMQIL KIPPNRDPHF YVEMTFSQDV LCECRPILET TKAERRKTKG KRKRSRNSQT EEPHP

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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