

# Human PIGF-1 Protein, Fc Tag (MALS verified)

Catalog # PGF-H5256



## Synonym

PGF,PLGF,PIGF,PGFL,SHGC-10760

## Source

Human PIGF-1 Protein, Fc Tag(PGF-H5256) is expressed from human 293 cells (HEK293). It contains AA Leu 19 - Arg 149 (Accession # [P49763-2](#) ).

Predicted N-terminus: Leu 19

## Molecular Characterization

PLGF(Leu 19 - Arg 149) P49763-2	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 41.2 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

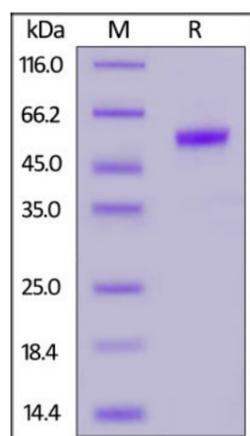
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

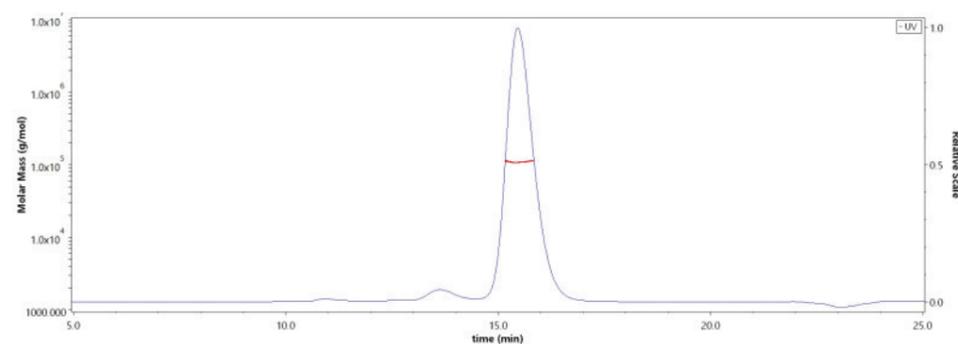
## SDS-PAGE



Human PIGF-1 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Human PIGF-1 Protein, Fc Tag (Cat. No. PGF-H5256) is more than 85% and the molecular weight of this protein is around 100-115 kDa verified by SEC-MALS.

[Report](#)

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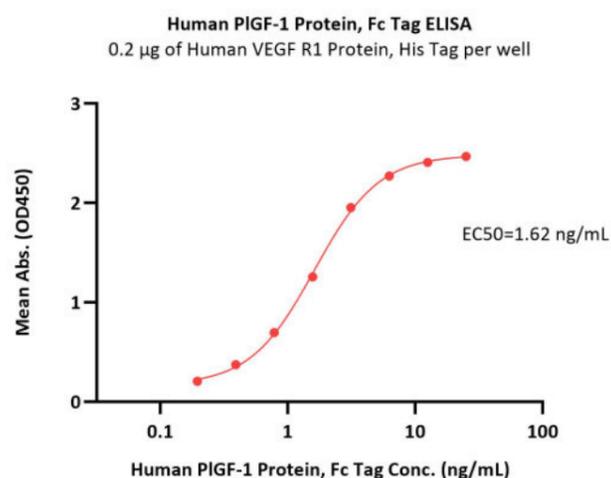


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BIOSYSTEMS  
**Acro**  
Surprise Inside!



Immobilized Human VEGF R1 Protein, His Tag (Cat. No. VE1-H52H9) at 2 µg/mL (100 µL/well) can bind Human PIGF-1 Protein, Fc Tag (Cat. No. PGF-H5256) with a linear range of 0.1-3 ng/mL (QC tested).

## Background

Placental growth factor (PGF) is also known as vascular endothelial growth factor-related protein, PLGF and PIGF2, is a member of the VEGF (vascular endothelial growth factor) sub-family - a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. The main source of PGF during pregnancy is the placental trophoblast. PGF is also expressed in many other tissues, including the villous trophoblast. PGF is activated in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. PIGF2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.

## Clinical and Translational Updates

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