

# Human PLGF Protein (Fc Tag)

Catalog Number: 10274-H05H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

D12S1900; PGFL; PLGF; PIGF-2; SHGC-10760

### Protein Construction:

A DNA sequence encoding the human PGF (NP\_002623.2) (Met1-Arg170) was expressed with the Fc region of mouse IgG1 at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Bio Activity:

1. Immobilized human PGF-mFc at 10 µg/mL (100 µL/well) can bind human VEGFR1-His (Cat:10136-H08H). The  $EC_{50}$  of human VEGFR1-His (Cat:10136-H08H) is 0.19-0.43 µg/mL.
2. Labeled biotin to PLGF / PGF Protein, Human, Recombinant (Fc Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of PLGF / PGF Protein, Human, Recombinant (Fc Tag), Biotinylated (Cat. 10274-H05H-B) bound to Conbercept was 4.5 nM.

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Leu 19

### Molecular Mass:

The recombinant human PGF consists 386 amino acids and predicts a molecular mass of 43.7 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

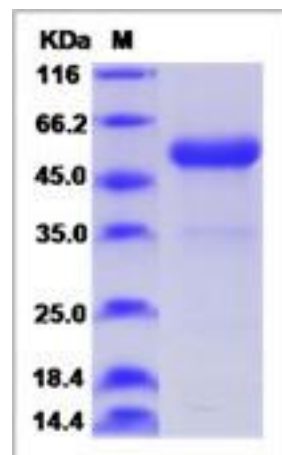
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## References

1. Nagy JA, et al. (2003) VEGF-A(164/165) and PLGF: roles in angiogenesis and arteriogenesis. Trends Cardiovasc Med. 13(5): 169-75.
2. Chaballe L, et al. (2011) Placental growth factor: a tissue modelling factor with therapeutic potentials in neurology? Acta Neurol Belg. 111(1): 10-7.
3. Odorisio T, et al. (2006) The placental growth factor in skin angiogenesis. J Dermatol Sci. 41(1): 11-9.

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