

# Mouse PLGF Protein

Catalog Number: 50125-MCCH



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

AI854365; PIGF; Plgf

### Protein Construction:

A DNA sequence encoding the mouse PGF (P49764) (Met1-Pro158) was fused with five amino acids (DDDDK) at the C-terminus was expressed and purified.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized mouse PGF at 10 µg/mL (100ul/well) can bind human VEGFR1-His (Cat:10136-H08H). The EC<sub>50</sub> of human VEGFR1-His (Cat:10136-H08H) is 0.07-0.15 µg/mL.

### Endotoxin:

< 1.0 EU per µg of the 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:** Val 19

### Molecular Mass:

The recombinant mouse PGF consists of 146 amino acids and has a calculated molecular mass of 16.6 kDa. The recombinant protein migrates as an approximately 28 kDa band in SDS-PAGE under reducing conditions.

### 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:

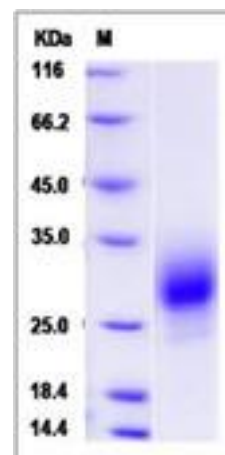
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**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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