

# Human PGF Protein, Ultra Low Endotoxin

Cat. No. PGF-HM201-UL

## Description

<b>Source</b>	Recombinant Human PGF Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Leu19-Arg221.
<b>Accession</b>	P49763-1
<b>Molecular Weight</b>	The protein has a predicted MW of 48.6 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

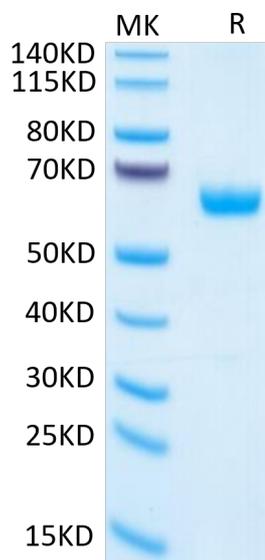
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Placental growth factor (PGF) is another member of the VEGF family of cytokines with pro-angiogenic and pro-inflammatory effects. Retinal inhibition of PGF in combination with VEGF-A prevents vascular leakage and CNV possibly via modulating their own expression in mononuclear phagocytes. PGF-related, optimized strategies to target inflammation-mediated angiogenesis may help to increase efficacy and reduce non-responders in the treatment of wet AMD patients.

## Assay Data

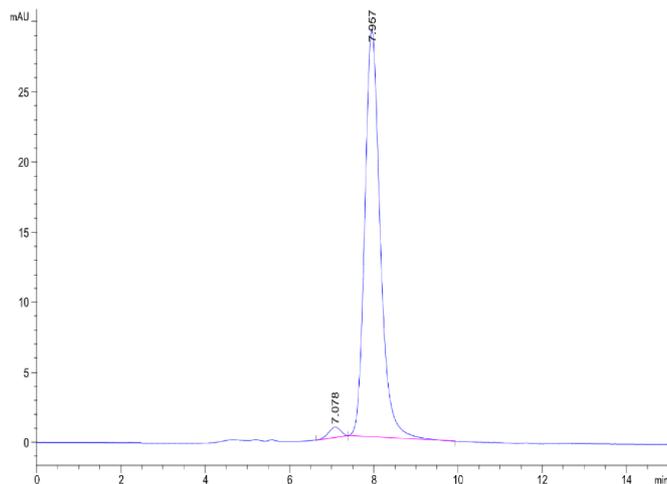
### Bis-Tris PAGE



Human PGF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

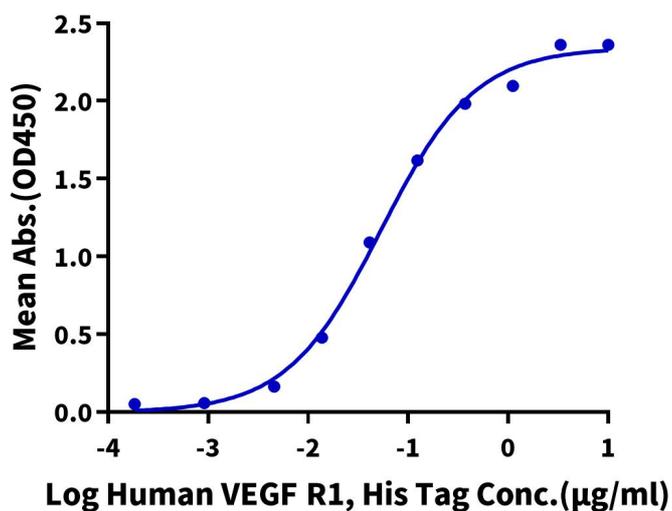


The purity of Human PGF is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human PGF, hFc Tag ELISA**

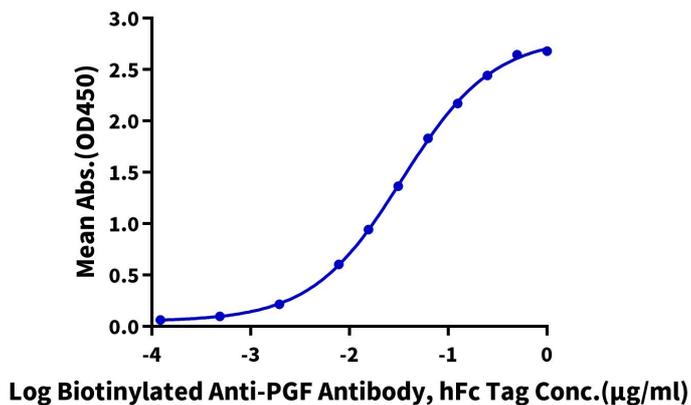
0.05µg Human PGF, hFc Tag Per Well



Immobilized Human PGF, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human VEGF R1, His Tag with the EC50 of 53.4ng/ml determined by ELISA.

**Human PGF, hFc Tag ELISA**

0.2µg Human PGF, hFc Tag Per Well



Immobilized Human PGF, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-PGF Antibody, hFc Tag with the EC50 of 34.1ng/ml determined by ELISA.