

Bioactive

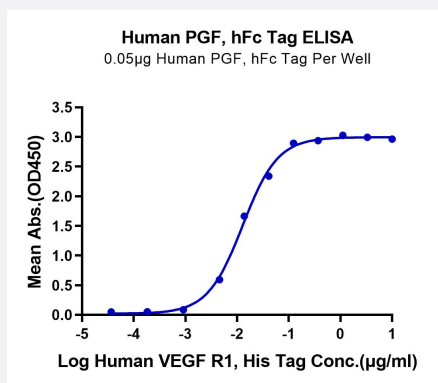
HuPro®

PGF (Human) Recombinant Protein

Catalog # P9894

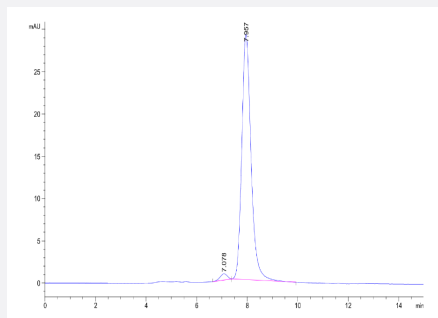
Size 100 ug

Applications



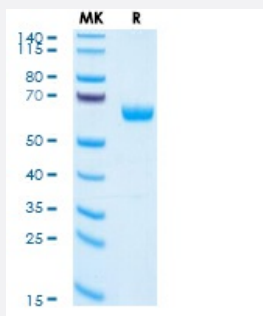
Enzyme-linked Immunoabsorbent Assay

Immobilized Human PGF, hFc Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human VEGF R1, His Tag with the EC₅₀ of 12.8 ng/mL determined by ELISA.



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description	Human PGF (P49763-1, Leu19-Arg221) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.
Sequence	Leu19-Arg221
Host	Human
Theoretical MW (kDa)	48.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 12.8 ng/mL, measured by ELISA at 0.5 ug/mL.
Isotype	PGF (Human) Recombinant Protein
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human PGF is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human PGF, hFc Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human VEGF R1, His Tag with the EC₅₀ of 12.8 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — PGF

Entrez GeneID	5228
Protein Accession#	P49763-1
Gene Name	PGF
Gene Alias	D12S1900, PGFL, PLGF, PIGF-2, SHGC-10760
Gene Description	placental growth factor
Omim ID	601121
Gene Ontology	Hyperlink
Gene Summary	vascular endothelial growth factor-related protein placental growth factor-like
Other Designations	placenta growth factor placental growth factor, vascular endothelial growth factor-related protein placental growth factor-like

Pathway

- [Bladder cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [mTOR signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Chorioamnionitis](#)

- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)