

PLGF/PGF Active Protein | PGF active protein

PLGF/PGF Protein, Human, Recombinant (mFc Tag)

CATALOG #
AAA257861

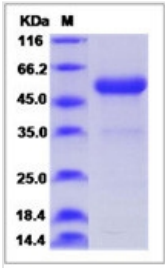
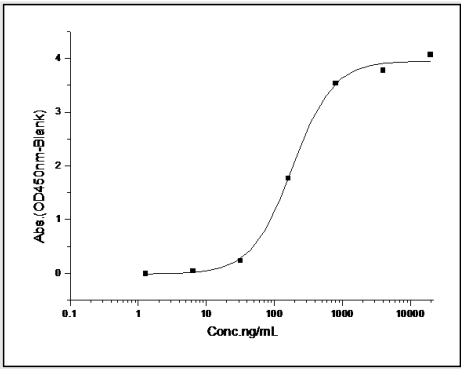
HOST
HEK293 Cells

PRODUCT SYNONYMS

PLGF/PGF; PLGF/PGF Protein; Human; Recombinant (mFc Tag); Human PLGF Protein (Fc Tag); D12S1900 Protein; PGFL Protein; PLGF Protein; PIGF-2 Protein; SHGC-10760 Protein; placental growth factor; PGF active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg17 0
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Leu 19
Tag	C-mouse IgG1-Fc
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.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human PGF-mFc at 10ug/mL (100uL/well) can bind human VEGFR1-His. The EC50 of human VEGFR1-His is 0.19-0.43ug/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 bound to Conbercept was 4.5uM.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human PGF-mFc at 10 ug/mL (100 uL/well) can bind human VEGFR1-His. The EC50 of human VEGFR1-His is 0.19-0.43 ug/mL.

ADDITIONAL INFORMATION

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

NCBI GI #	20149543
NCBI GeneID	5228
NCBI Accession #	NP_002623.2
NCBI GenBank Nucleotide #	NM_002632.5
UniProt Accession #	P49763; Q07101; Q9BV78; Q9Y6S8
Molecular Weight	24,789 Da
NCBI Official Full Name	placenta growth factor isoform 1
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	PGF
NCBI Official Synonym Symbols	PGFL; PLGF; PIGF-2; D12S1900; SHGC-10760
NCBI Protein Information	placenta growth factor; placental growth factor, vascular endothelial growth factor-related protein
UniProt Protein Name	Placenta growth factor
UniProt Gene Name	PGF
UniProt Synonym Gene Names	PGFL; PLGF; PIGF
UniProt Entry Name	PLGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.