

Human CellExp PLGF/PIGF2/PGF, human recombinant protein
PGF, PLGF, PIGF2, PIGF, PGFL, SHGC-10760
Catalog # PBV10868r**Specification****Human CellExp PLGF/PIGF2/PGF, human recombinant protein - Product info**Primary Accession
Calculated MW[P49763](#)

The protein is fused with 6×His tag at the C-terminus, has a calculated MW of 20.2 kDa. The predicted N-terminus is Leu 19. DTT-reduced Protein migrates as 28-33 kDa due to glycosylation. KDa

Human CellExp PLGF/PIGF2/PGF, human recombinant protein - Additional InfoGene ID
Gene Symbol5228
PLGF**Other Names**

PGF, PLGF, PIGF2, PIGF, PGFL, SHGC-10760

Gene Source
Source
Assay&Purity
Assay2&Purity2Human
HEK 293 cells
SDS-PAGE; ≥95%
HPLC;
YesRecombinant
Target/Specificity
PLGF**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp PLGF/PIGF2/PGF, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp PLGF/PIGF2/PGF, human recombinant protein - Images**Human CellExp PLGF/PIGF2/PGF, human recombinant protein - Background**

Placental growth factor (PGF) also known as vascular endothelial growth factor-related protein, PLGF and PIGF2, is a member of the VEGF (vascular endothelial growth factor) sub-family - a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. The main source of PGF during pregnancy is the placental trophoblast. PGF is also expressed in many other tissues, including the villous trophoblast. PGF is active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. PIGF2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.

Human CellExp PLGF/PIGF2/PGF, human recombinant protein - References

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Cao Y., et al. Biochem. Biophys. Res. Commun. 235:493-498(1997).
Heilig R., et al. Nature 421:601-607(2003).