Datasheet for ABIN2181647

PLGF Protein (AA 19-170) (His tag)

3 Images

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Overview

Quantity:	20 µg
Target:	PLGF (PGF)
Protein Characteristics:	AA 19-170
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PLGF protein is labelled with His tag.

Product Details

Sequence:	AA 19-170
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 20.2 kDa. The protein migrates as 28-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	PLGF (PGF)

Target Details

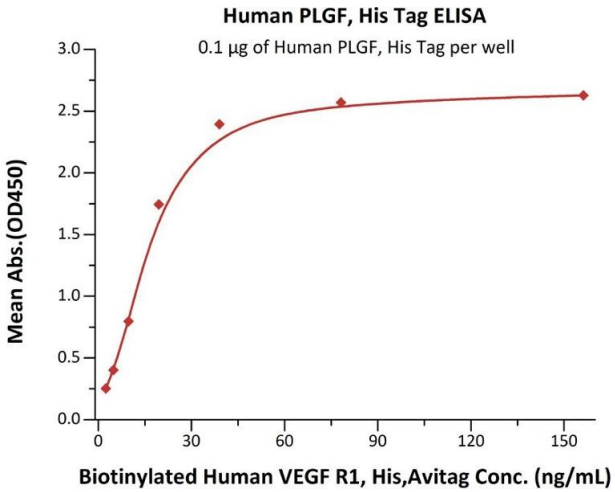
Alternative Name:	PLGF (PGF Products)
Background:	Placental growth factor (PGF) is also known as vascular endothelial growth factor-related protein, PLGF and PlGF2, is a member of the VEGF (vascular endothelial growth factor) sub-family - a key molecule in angiogenesis and vasculogenesis, in particular 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 actived in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. PlGF2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.
Molecular Weight:	18.2 kDa
NCBI Accession:	NP_002623
Pathways:	VEGFR1 Specific Signals

Application Details

Restrictions:	For Research Use only

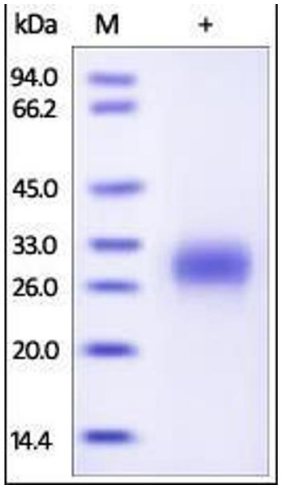
Handling

Format:	Lyophilized
Buffer:	100 mM Acetic Acid, pH 3.0
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



ELISA

Image 1. Immobilized Human PLGF, His Tag (ABIN2181648,ABIN2181647) at 1 µg/mL (100 µL/well) can bind Biotinylated Human VEGF R1, His,Avitag (ABIN5955009,ABIN6253629) with a linear range of 2-20 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Human PLGF, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

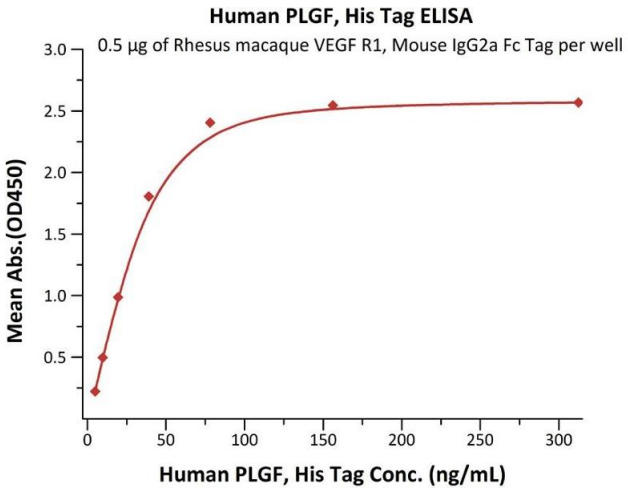


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Image 3. Immobilized Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag, low endotoxin (ABIN5955010,ABIN6809970) at 5 µg/mL (100 µL/well) can bind Human PLGF, His Tag (ABIN2181648,ABIN2181647) with a linear range of 5-40 ng/mL (QC tested).