Datasheet for ABIN7319842

PLGF Protein (His tag)

1 Image

Go to Product page

Overview

Quantity:	50 µg
Target:	PLGF (PGF)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLGF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Placenta Growth Factor/PGF/PIGF/PLGF (C-6His)
Sequence:	Leu19-Arg170
Characteristics:	Recombinant Human Placenta Growth Factor is produced by our Mammalian expression system and the target gene encoding Leu19-Arg170 is expressed with a 6His tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PLGF (PGF)
Alternative Name:	Placenta Growth Factor/PGF/PIGF/PLGF (PGF Products)
Background:	Background: Placental growth factor is a protein that in humans is encoded by the PGF gene. It is a secreted protein and belongs to the PDGF/VEGF growth factor family. Alternate splicing

Target Details

	results in at least three human mature PlGF forms containing 131 (PlGF-1), 152 (PlGF-2), and 203 (PlGF-3) amino acids (aa) respectively. PlGF is mainly found as a variably glycosylated, secreted, 55 - 60 kDa disulfide linked homodimer.The protein 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. PlGF (especially PlGF-1) and some forms of VEGF can form dimers that decrease the angiogenic effect of VEGF on VEGF R2. PlGF-2, like VEGF164/165, shows heparin-dependent binding of neuropilin (Npn)-1 and Npn-2, and can inhibit nerve growth cone collapse. Circulating PlGF often correlates with tumor stage and aggressiveness, and therapeutic PlGF-2 antibodies are being investigated for their ability to inhibit tumor growth and angiogenesis. Synonym: PlGF2, PlGF-2, PGF, PLGF, PlGF2, PlGF, PGFL
Molecular Weight:	18.2 kDa
Pathways:	VEGFR1 Specific Signals

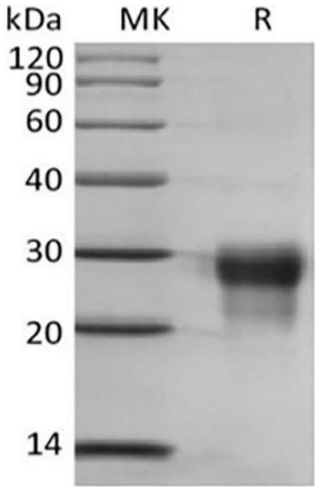
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.