Datasheet for ABIN7505132

PLGF Protein (AA 19-149) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	PLGF (PGF)
Protein Characteristics:	AA 19-149
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLGF protein is labelled with His tag.

Product Details

Sequence:	Leu 19-Arg 149
Characteristics:	A DNA sequence encoding the Human PLGF/PGF protein (P49763-2) (Leu 19-Arg 149) was expressed with a C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	PLGF (PGF)
Alternative Name:	PLGF (PGF Products)
Background:	Abbreviation: PLGF,PGF Target Synonym: PlGF2,PlGF-2,PGF,PLGF,PlGF2,PlGF,PGFL 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.
Molecular Weight:	Calculated MW: 14.3 kDa Observed MW: 16 kDa
UniProt:	P49763-2
Pathways:	VEGFR1 Specific Signals

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months