Datasheet for ABIN1589562

PLGF Protein (Homodimer)

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Overview

Quantity:	2 µg
Target:	PLGF (PGF)
Protein Characteristics:	Homodimer
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	PlGF
Sequence:	ALSAGNNSTE VEVVPFNEVW GRSYCRPMEK LVYILDEYPD EVSHIFSPSC VLLSRCSGCC GDEGLHCVPI KTANITMQIL KIPPNRDPHF YVEMTFSQDV LCECRPILET TKAERRKTKG KRKRSRNSQT EEPHP
Specificity:	Chromosomal location:12 D, 12 39.0 cM
Characteristics:	Length (aa):135/132
Purity:	> 95 % by SDS-PAGE

Target Details

Target:	PLGF (PGF)
Alternative Name:	PlGF (PGF Products)

Target Details

Background:	Placenta growth factor (PlGF) is a member of the vascular endothelial growth factor (VEGF) family of growth factors. PlGF and VEGF share primary structural as well as limited amino acid sequence homology with the A and B chains of PDGF. All eight cysteine residues involved in intra and interchain disulfides are conserved among these growth factors. As a result of alternative splicing, three PlGF RNAs encoding monomeric human PlGF-1, PlGF-2 and PlGF-3 isoform precursors containing 149, 179 and 219 amino acid residues, respectively, have been described. In normal mouse tissues, only one mouse PlGF mRNA encoding the equivalent of human PlGF-2 has been identified. Mouse PlGF shares 65 % amino acid identity with human PlGF-2. The gene for PlGF has been mapped to mouse chromosome 12 and human chromosome 14. PlGF binds with high affinity to Flt1, but not to Flk1/KDR. Synonyms: Pgf, PlGF, Plgf, AI854365, placental growth factor
Molecular Weight:	~40 kDa
Gene ID:	18654
NCBI Accession:	NM_008827, NP_032853
UniProt:	P49764
Pathways:	VEGFR1 Specific Signals

Application Details

Application Notes:	Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant mouse PlGF can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.5 - 10 ng/mL.
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge vial prior to opening. The lyophilised PlGF is supplied in lyophilized form with carrier-protein (BSA) and can be reconstituted with 50 mM acetic acid or PBS/water. This solution can be diluted into other buffered solutions or stored frozen for future use.
Buffer:	25 mM Tris, 75 mM NaCl pH 8.5
Storage:	RT,-20 °C,-80 °C

Handling

Storage Comment:	The lyophilized mouse PIGF, though stable at room temperature, is best stored in working aliquots at -20°C to -70°C.