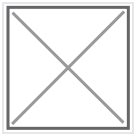
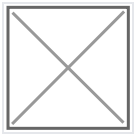
PlGF Mouse Active Protein

PRODUCT OVERVIEW

Product Name	PlGF, Active Protein
Full Product Name	Mouse PlGF
Product Gene Name	PlGF active protein
Product Synonym Names	Recombinant Mouse Placenta Growth Factor; PlGF; Placenta Growth Factor
Sequence	N-Terminal Sequence: ALSAGNNSTE AND AGNNSTE
Host	Insect Cells
Species Reactivity	Mouse
Form/Format	Freeze dried
Purity/Purification	> 95% by SDS-PAGE & silver stain
Preparation and Storage	The lyophilized mouse PlGF, though stable at room temperature, is best stored in working aliquots at -20 degree C to -70 degree C.
Molecular Weight	~ 40 kDa (Dimer)
Chromosome Location	Chromosome: 12; NC_000078.6 (85166637..85177785, complement). Location: 12 D; 12 39.58 cM
3D Structure	ModBase 3D Structure for P49764
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
N Terminal Sequence	ALSAGNNSTE and AGNNSTE
Buffer	25 mM Tris, 75 mM NaCl pH 8.5
Product Categories/Family for PlGF active protein	Cytokines & Growth Factors
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for PlGF active protein	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.
Product References and Citations for PlGF active protein	1. DiPalma, T. et al. (1996) Mamm. Genome 7:6. 2. Cao, Y. et al. (1997) Biochem. Biophys. Res. Commun. 235:493. 3. Ferrara, N. et al. (1997) Endocrin. Rev. 18:4
Other Notes	Small volumes of PlGF active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PlGF purchase	MBS691520 is an active protein targeting PlGF. Also known as Mouse PlGF. Reactive in Mouse. Host: Insect Cells.



Testing Data of PlGF active protein



Testing Data #2 of PlGF active protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PlGF. It may not necessarily be applicable to this product.

NCBI GI #	6679289
NCBI GeneID	18654
NCBI Accession #	NP_032853
UniProt Primary Accession #	P49764
UniProt Related Accession #	P49764
GenBank Nucleotide #	NM_008827
NCBI Official Full Name	placenta growth factor isoform 1
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	Pgf
NCBI Official Synonym Symbols	PIGF; Plgf; AI854365
UniProt Protein Name	Placenta growth factor
Protein Family	Placenta growth factor
UniProt Gene Name	Pgf
UniProt Synonym Gene Names	Plgf; PlGF
UniProt Entry Name	PLGF_MOUSE
NCBI Protein Information	placenta growth factor
UniProt Comments for PlGF	Function: Growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1/VEGFR-1. Also promotes cell tumor growth By similarity. Subunit structure: Antiparallel homodimer; disulfide-linked. Also found as heterodimer with VEGFA/VEGF By similarity. Subcellular location: Secreted By similarity. Sequence similarities: Belongs to the PDGF/VEGF growth factor family.
Research Articles on PlGF	**1.** PlGF positively and negatively modulate tumor growth, angiogenesis, and vascular remodeling through a VEGF-dependent mechanism.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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