

Product datasheet

Recombinant Rat PLGF protein ab190989

Description

Product name	Recombinant Rat PLGF protein
Purity	> 95 % SDS-PAGE. The purity of ab190989 is greater than 95% by SDS-PAGE gel and HPLC analyses.
Endotoxin level	< 0.100 Eu/μg
Expression system	Escherichia coli
Accession	<u>Q63434</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	ALSAGNNSTE MEVVPFNEVW GRSYCRPMEK LVYIADEHPN EVSHIFSPSC VLLSRC SGCC GDEGLHCVAL KTANITMQL KIPPNRDPHS YVEMTFSQDV LCECRPILET TKAERRKTKG KRKQSKTPQT EEPHL
Predicted molecular weight	30 kDa
Amino acids	24 to 158
Additional sequence information	ab190989 is the mature full length protein from aa 24 to 158. The signal peptide is not included. ab190989 is a 30.3 kDa disulfide-linked homodimeric protein of two 135 amino acid polypeptide chains.

Specifications

Our **Abpromise guarantee** covers the use of **ab190989** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC
Form	Lyophilized
Additional notes	Avoid inhalation. Avoid contact with eyes, skin and clothing.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C.
Reconstitution	For lot specific reconstitution information please contact our Scientific Support Team.

General Info

Function	Growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1/VEGFR-1. Isoform PIGF-2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner.
Tissue specificity	While the three isoforms are present in most placental tissues, PIGF-2 is specific to early (8 week) placenta and only PIGF-1 is found in the colon and mammary carcinomas.
Sequence similarities	Belongs to the PDGF/VEGF growth factor family.
Domain	Isoform PIGF-2 contains a basic insert which acts as a cell retention signal.
Post-translational modifications	N-glycosylated.
Cellular localization	Secreted. The three isoforms are secreted but PIGF-2 appears to remain cell attached unless released by heparin.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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