

Product datasheet

Recombinant human PLGF protein (Animal Free) ab217383

Description

Product name	Recombinant human PLGF protein (Animal Free)
Biological activity	Determined by its ability to chemoattract human monocytes of using a concentration range of 1.0-10.0 ng/mL.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P49763-2</u>
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Human
Sequence	MLPAVPPQQW ALSAGNGSSE VEVVPFQEVW GRSYCRALER LVDVVSEYPS EVEHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMQLL KIRSGDRPSY VELTFSQHVR CECRPLREKM KPERCGDAVP RR
Predicted molecular weight	25 kDa
Amino acids	19 to 149
Additional sequence information	from Isoform 2

Specifications

Our **Abpromise guarantee** covers the use of **ab217383** 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 Functional Studies HPLC
Form	Lyophilized

Preparation and Storage

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Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Lyophilised from a sterile filtered solution. Centrifuge the vial prior to opening. Reconstitute in Water to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20C to -80C

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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