

Product datasheet

Recombinant Mouse PLGF protein (His tag) ab194182

Description

Product name	Recombinant Mouse PLGF protein (His tag)	
Purity	> 95 % SDS-PAGE. Purity greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	P49764	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	VHSQGALSAGNNSTEVEVVPFNEVWGRSYCRPMEKLVYI LDEYPDEVSHI FSPSCVLLSRCSGCCGDEGLHCVPIKTANITMQLKIPPNR DPHFYVEMT FSQDVLCECRPILETTKAERRKTKGKRKRSRNSQTEEPHP VDHHHHHH	
Predicted molecular weight	17 kDa including tags	
Amino acids	19 to 158	
Tags	His tag C-Terminus	
Additional sequence information	This product is the mature full length protein from aa 19 to 158. The signal peptide is not included.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab194182** in the following tested applications.

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

Applications	HPLC SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C. Reconstitute for long term storage.

pH: 7.40
Constituents: 0.88% Sodium chloride, 99% Phosphate Buffer

Lyophilized from a 0.2 µM filtered solution.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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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