

GFH198AF Recombinant Human PlGF-3 (Animal-Free)

Description

Placenta Growth Factor (PlGF) is a member of the Vascular Endothelial Growth Factor (VEGF) / Platelet-Derived Growth Factor (PDGF) family of growth factors that share a conserved pattern of eight cysteines. PlGF is detected in the placenta, heart, lungs, thyroid, and adipose tissues. These growth factors induce monocyte activation, migration, and production of inflammatory cytokines and VEGF. There are four alternatively spliced PlGF isoforms (PlGF-1, PlGF-2, PlGF-3, and PlGF-4), each with unique secretion patterns and heparin-binding affinities. PlGF-3 is an angiogenic factor, which promotes endothelial cell growth and angiogenesis, being expressed exclusively in the placenta.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	204 / 408 aa
Molecular Weight	22.9 / 45.8 kDa
Source	E. coli
Accession Number	P49763
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

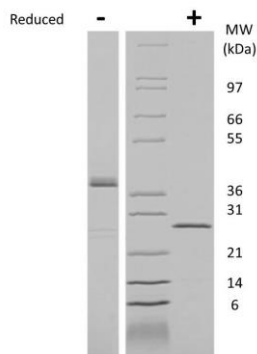
Specifications

Alternative Names	Placenta Growth Factor-3, PGFL, Placenta Growth Factor, D12S1900, PGF, PGFL, placenta growth factor, placental growth factor, placental growth factor, vascular endothelial growth factor-related protein, PlGF, PlGF-2, PLGF placental growth factor-like, SHGC-10760
Biological Activity	Activity to be determined.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MLPAVPPQQW ALSAGNGSSE VEVVPFQEVW GRSYCRALER LVDVSEYPS EVEHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMQLL KIRSGDRPSY VELTFSQHVR CECRHSFGRQ SPDMPGDFRA DAPSFLPPRR SLPMLFRMEW GCALTGSQSA VWPSSVPPEE IPRMHPGRNG KKQQRKPLRE KMKPERCGDA VPRR

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human PlGF-3 is a dimer with a predicted Mw of 45.8 kDa (each monomer is 22.9 kDa).