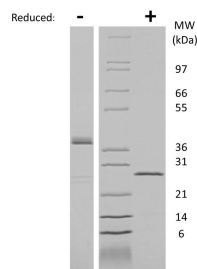


PGF

Recombinant Human Placenta Growth Factor 3

Catalog No.	CRH067A CRH067B CRH067C	Quantity:	25 µg 100 µg 1.0 mg
Alternate Names:	PIGF-3		
Description:	<p>PIGF, a member of the VEGF family, was originally discovered in the placenta, where it was proposed to regulate vascular development and trophoblast growth and differentiation. PIGF stimulates endothelial cell growth, migration, and survival and plays a central role in pathologic angiogenesis, including in cancer and tissue ischemia. PIGF concentrations increase throughout pregnancy, peaking during the third trimester, and falling thereafter, probably as a consequence of placental maturation. Despite interest in the utility of PIGF for clinical diagnostics, the role of PIGF in preeclampsia and in placental development is not well understood. PIGF is secreted as a homodimer and may also form a heterodimer with VEGF. There are four alternatively spliced PIGF isoforms (PIGF-1, PIGF-2, PIGF-3, and PIGF-4), each with unique secretion patterns and heparin-binding affinities. PIGF-3 lacks a heparin-binding domain and signals through the VEGFR-1 receptor.</p>		
Gene ID:	5228		
UniProt ID:	P49763-1		
Source:	<i>E. coli</i>		
Molecular Weight:	22.9/45.8 kDa Dimer, (204/408 aa)		
Formulation:	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg of protein by kinetic LAL analysis		
Amino Acid Sequence:	MLPAVPPQQW ALSAGNGSSE VEVVPFQEVW GRSYCRALER LVDVVSEYPS EVEHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMQLL KIRSGDRPSY VELTFSQHVR CECRHSPGRQ SPDMPGDFRA DAPSFLPPRR SLPMLFRMEW GCALTGSQSA VWPSSPVPEE IPRMHPGRNG KKQQRKPLRE KMKPERCGDA VPRR		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		





Human PlGF-3 Gel

Figure: 1 ug was run under non-reducing conditions (-) and reducing conditions (+) in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human PlGF-3 is a dimer with a total predicted MW of 45.8 kDa (each monomer is 22.9 kDa).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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