

Placenta Growth Factor-1 Human Recombinant

Item Number	rAP-2429
Synonyms	PIGF, PGF, PLGF-1, PIGF-2.
Description	PLGF1 Human Recombinant (21-221 a.a.) produced in E.Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 29kDa. The PLGF-1 Human Recombinant protein is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P49763
Amino Acid Sequence	AVPPQQWALS AGNGSSEVEV VPFQEVWGRS YCRALERLVD VVSEYPSEVE HMFSPSCVSL LRCTGCCGDE NLHCPVETA NVTMQLLKIR SGDRPSYVEL TFSQHVRCEC RPLREKMKPE RCGDAV- PRR.
Source	Escherichia coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized PLGF-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PLGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	PLGF-1 protein was lyophilized from a 0.2µm filtered solution in Acetonitrile and TFA. Greater than 97.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized PLGF1 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Binds to immobilized rHuVEGFR1 with EC50 less than 6ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**