

Placenta Growth Factor-1 Human Recombinant, Sf9

Item Number	rAP-2427
Synonyms	PIGF, PGF, PLGF-1, PIGF-2.
Description	Placenta Growth Factor-1 Human Recombinant produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 131 amino acids and having a total molecular mass of approximately 34 kDa. The PLGF-1 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P49763
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Ala-Val.
Source	Insect Cells.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Placenta Growth Factor 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. Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a concentrated (1mg/ml) solution containing 50mM acetic acid. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Placenta Growth Factor 1 in sterile 0.1M acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. PIGF-1 human Recombinant can bind to immobilized rh-sFlt-1 (100ng/well) with a linear range at 0.5-10ng/ml, corresponding to a Specific Activity of 1x10 ⁵ -2x10 ⁶ u
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**