
Product Data Sheet

Product Name: PLGF1 Human, Sf9

Cat. No.: GP20838

Batch No.: 1

Product Data

Purity	>98%	Source	Insect Cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	PIGF; PGF; PLGF-1; PIGF-2.		
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.		
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.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing 50mM acetic acid.		

Introduction

PLGF is a growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration. It binds to receptor vegfr-1/flt1.

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 1x10⁵-2x10⁶units/mg.

Stability

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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