



Product Datasheet

Product Name	Recombinant Human Placenta Growth Factor-1
Cata No	CB500321
Source	<i>Insect Cells</i>
Synonyms	PIGF, PGF, PLGF-1, PIGF-2

Description

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

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.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Specific 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 (100 ng/well) with a linear range at 0.5 - 10 ng/mL.

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.

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.

Formulation

Lyophilized from a concentrated(1mg/ml) solution containing 50mM acetic acid.

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