

**32-6522: PLGF1 Human, 132 a.a.**

**Application :** Functional Assay  
**Alternative Name :** PIGF, PGF, PLGF-1.

**Description**

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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

Placental Growth Factor-1 Human Recombinant produced in E.Coli is a non-glycosylated, disulfide-linked homodimer consisting of 2x132 amino acid polypeptide chains, having a total molecular mass of approximately 29.7kDa. PLGF1 is purified by proprietary chromatographic techniques.

**Product Info**

**Amount :** 2 µg / 10 µg  
**Purification :** Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** Lyophilized from a 0.2µm filtered concentrated solution in 10mM Sodium Phosphate pH 7.5. It is recommended to reconstitute the lyophilized Placental Growth Factor-1 in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.  
**Storage condition :** Lyophilized PLGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Placental Growth Factor-1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.  
**Amino Acid :** MLPVAPPQQW ALSAGNGSSE VEVVPFQEVW GRSYCRALER LVDVVSEYPS EVEHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMQLL KIRSGDRPSY VELTFSQHVRC ECRPLREKM KPERCGDAVPRR.

**Application Note**

Determined by its ability to chemoattract human monocytes of using a concentration range of 1.0-10.0 ng/ml.