# PLGF-1 Human E. coli

## Product Data Sheet

**Type:** Recombinant
**Source:** E. coli
**Species:** Human
**Other names:** Placenta Growth Factor-1, PlGF, PGF

**Cat. No.:**

| | |
|---|---|
| RBG10274005 | (5 µg) |
| RBG10274025 | (25 µg) |
| RBG10274100 | (100 µg) |

## Description

PlGF-1 is an angiogenic factor that belongs to the cysteine-knot superfamily of growth factors. PlGF-1 is expressed in placental tissues, the colon, and mammary carcinomas. It signals through the VEGFR-1/FLT1 receptor, and stimulates endothelial cell proliferation and migration. Recombinant Human PlGF-1 is a 29.7 kDa disulfide-linked homodimeric protein of two 132 amino acid polypeptide chains.

## Research topic

Cardiovascular disease, Coronary artery disease, Oncology

## Amino Acid Sequence

MLPAVPPQQW ALSAGNGSSE VEVVPFQEVW GRSYCRALER LVDVVSEYPS EVEHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMQLL KIRSGDRPSY VELTFSQHVR CECRPLREKM KPERCGDAVP RR

## Source

E. coli

## Purity

95%

## Biological Activity

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

## Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

## Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

## Storage, Stability/Shelf Life

-20°C


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