

PLGF-3 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10276005	(5 µg)
Species: Human	RBG10276025	(25 µg)
Other names: Placenta Growth Factor-3, PGFL	RBG10276100	(100 µg)

Description

PIGF-3 is an angiogenic factor that belongs to the cysteine-knot superfamily of growth factors. PIGF-3 is expressed exclusively in the placenta. It signals through the VEGFR-1/FLT1 receptor, and stimulates endothelial cell proliferation and migration. PIGF-3 lacks heparin binding affinity. Recombinant Human PIGF-3 is a 45.7 kDa disulfide-linked homodimeric protein of two 203 amino acid polypeptide chains.

Research topic

Cardiovascular disease, Coronary artery disease

Amino Acid Sequence

LPVAVPPQQWA LSAGNGSSEV EVVVFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE
TANVTMQLLK IRSGDRPSYV ELTFSQHVRC ECRHSPGRQS PDMPGDFRAD APSFLPPRRS LPMLFRMEWG CALTGSQSAV
WPSSVPPEEI PRMHPGRNGK KQQRKPLREK MKPERCGDAV PRR

Source

E. coli

Purity

95%

Biological Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 5.0-50.0 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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