

# Recombinant human PIGF-2 protein

Catalog Number: ATGP4025

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

21-170aa

### UniProt No.

P49763-3

### NCBI Accession No.

NP\_002623.2

### Alternative Names

placental growth factor, placenta growth factor isoform 1, PGF, D12S1900, PGFL, PIGF, PLGF, PIGF-2, SHGC-10760

## PRODUCT SPECIFICATION

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### Molecular Weight

18.3kDa (160aa)

### Concentration

0.25mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS - PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PIGF, as know as placenta growth factor, is a member of the VEGF sub-family that a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. It is ultimately associated with angiogenesis. Specifically, it plays a role in trophoblast growth and differentiation. Also it is a potential biomarker for preeclampsia, a condition in which blood vessels in the placenta are too narrow, resulting in high blood

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pressure. Under normal physiologic conditions, it is also expressed at a low level in other organs including the heart, lung, thyroid, and skeletal muscle. Recombinant human PIGF, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.

### Amino acid Sequence

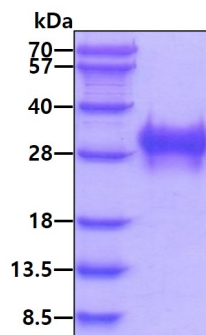
<DGSM>AVPPQQ WALSAAGNGSS EVEVVPFQEV WGRSYCRALR RLVDVVSEYP SEVEHMFSPS CVSLLRCTGC  
CGDENLHCVP VETANVTMQL LKIRSGDRPS YVELTFSQHV RCECRPLREK MKPERRRPPKG RGKRRREKQR PTDCHLCGDA  
VPRR<HHHHHH>

### General References

Asma Khalil., et al, (2008) PLoS One. 3:e2766.  
Khurana R., et al, (2005) Circulation. 111:2828-2836.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain