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# Recombinant human PIGF-2 protein

Catalog Number: ATGP4143

#### PRODUCT INFORMATION

# **Expression system**

**HEK293** 

#### **Domain**

19-170aa

#### UniProt No.

P49763-3

#### **NCBI Accession No.**

NP 002623.2

### **Alternative Names**

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

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

18.1kDa (158aa)

### Concentration

0.5mg/ml (determined by Absorbance at 280nm)

#### **Formulation**

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

### **Purity**

> 90% by SDS - PAGE

#### **Endotoxin level**

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

## **Biological Activity**

Measured by its binding ability in a functional ELISA with Human VEGFR1/Flt-1 (CAT# ATGP4101).

### Tag

His-Tag

## **Application**

SDS-PAGE, Bioactivity

# **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**

# Description

PIGF-2, as know as placenta growth factor, is a member of the VEGF sub-family that a key molecule in



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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 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-2, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

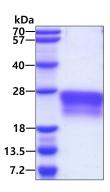
LPAVPPQQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE TANVTMQLLK IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERRRPKGRG KRRREKQRPT DCHLCGDAVP RR<HHHHHH+>

#### **General References**

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

# **DATA**

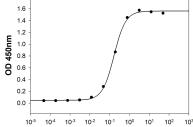
#### **SDS-PAGE**



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

## **Biological Activity**





Human PIGF-2 is coated at 2 ug/ml (100 ul/well) can bind Human VEGFR1/Flt-1 (CAT# ATGP4101) in a Functional ELISA assay.

