

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, PLGF, 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

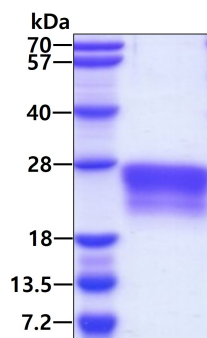
LPAVPPQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE TANVTMQLLK IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERRRPKGRG KRRREKQRPT DCHLCGDVAVP RR<HHHHHH>

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.

