

# Recombinant human PSG1 protein

Catalog Number: ATGP2682

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

35-419aa

**UniProt No.**

P11464

**NCBI Accession No.**

NP\_008836

**Alternative Names**

Pregnancy-specific beta-1-glycoprotein 1 isoform 1, Pregnancy-specific beta-1-glycoprotein 1 isoform 1, B1G1, CD66f, DHFRP2, FL-NCA-1/2, PBG1, PS-beta-C/D, PS-beta-G-1, PSBG-1, PSBG1, PSG95, PSGGA, PSGIIA, SP1

## PRODUCT SPECIFICATION

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**Molecular Weight**

45.9 kDa (408aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

&gt; 80% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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**

PSG1 belongs to a subgroup of transcription factors that are phosphorylated upon binding to promoter sequences. PSGs are part of the carcinoembryonic antigen (CEA) family and serve as early biochemical markers of syncytiotrophoblast formation. The sequence specificity of DNA binding is conferred by Zn (II) fingers, whereas a different region of PSG1 appears to regulate the affinity of DNA binding. Additionally, PSG1 is believed to mediate placental vascular morphogenesis by enhancing VEGF-A production and endothelial tube formation.

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Recombinant human PSG1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSQVTIEAE PTKVSEGKDV LLLVHNL PQN LTGYIWKYKQ MRDLYHYITS YVVDGEIIIIY  
GPAYSGRETA YSNASLLIQN VTREDAGSYT LHIKGGDDGT RGV TGRFTFT LHLETPKPSI SSSNLNPRET MEAVSLTCDP  
ETPDASYLWW MNGQSLPMT H SLKLSETNRT LFL LGVTKYT AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINNLNP  
RENKDVLFNT CEPKSENYTY IWWLNGQSLP VSPRVKRP I E NRILILPSVT RNETGPHYQCE IRDRYGGIRS DPVTLNVLYG  
PDLPRIYPSF TYRSGEVLY LSCSADSNPP AQYSWTINEK FQLPGQKLF I RHITTKHSG L YVCSVRNSAT GKESKSM TV  
EVSGKWIP

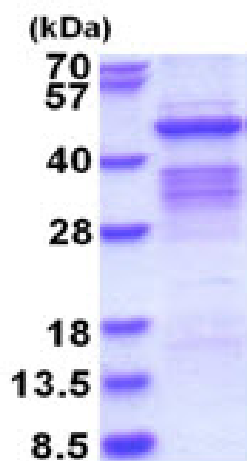
## General References

Liu H., et al. (2002) Mol Cell Biol. 22: 6471-6479.

Van der Watt P J., et al. (2011) Biochim Biophys Acta. 1809: 316-326.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)