

Recombinant human PSG1 protein

Catalog Number: ATGP2682

PRODUCT INFORMATION

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

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

> 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

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

MGSSHHHHHH 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
RENKDVLFNFT CEPKSENYTY IWWLNGQSLP VSPRVKRP I E NRILILPSVT RNETGPHYQCE IRDRYGGIRS DPVTLNVLYG
PDLPRIYPSF TYRSGEVLY LSCSADSNPP AQYSWTINEK FQLPGQKLF I RHITTKHSG L YVCSVRNSAT GKESKSM TV
EVSGKWIP

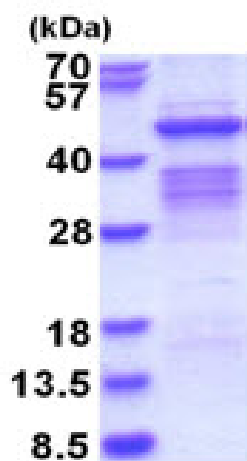
General References

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)