

Recombinant Human PSG1, His-tagged

Cat. No. PSG1-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSG1, 35-419aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	35-419aa
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. Recombinant human PSG1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	45.9kDa (408aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQVTIEAE PTKVSEGKDV LLLVHNL PQN LTGYIWYKGQ MRDLYHYITS YVVDGEIIY GPAYSGRETA YSNASLLIQN VTREDAGSYT LHIKGGDDGT RGV TGRFTFT LHLETPKPSI SSSNLNPRET MEAVSLTCDP ETPDASYLWW MNGQSLPMTH SLKLSETNRT LFL LGVTKYT

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AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINNLP RENKDVNLFT
 CEPKSENYTY IWWLNGQSLP VSPRVKRPIE NRILIPSVT RNETGPYQCE
 IRDRYGGIRS DPVTLNVLYG PDLPRIYPSF TYYRSGEVLY LSCSADSNPP
 AQYSWTINEK FQLPGQKLFI RHITTKHSGI YVCSVRNSAT GKESKSMVT
 EVSGKWIP

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PSG1 pregnancy specific beta-1-glycoprotein 1 \[Homo sapiens \]](#)

Official Symbol PSG1

Synonyms PSG1; pregnancy specific beta-1-glycoprotein 1; PSBG1; pregnancy-specific beta-1-glycoprotein 1; CD66f; PBG1; PSGGA; PSG95; PSBG-1; FL-NCA-1/2; PS-beta-C/D; PS-beta-G-1; CD66 antigen-like family member F; pregnancy-specific glycoprotein 1; pregnancy-specific B-1 glycoprotein; pregnancy-specific beta-1 glycoprotein C/D; fetal liver non-specific cross-reactive antigen 1/2; SP1; B1G1; DHFRP2; PSGIIA; FLJ90598; FLJ90654;

Gene ID [5669](#)

mRNA Refseq [NM_006905](#)

Protein Refseq [NP_008836](#)

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MIM	176390
UniProt ID	P11464
Chromosome Location	19q13.2

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