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 LLLVHNLPQN LTGYIWYKGQ MRDLYHYITS YVVDGEIIIY GPAYSGRETA YSNASLLIQN VTREDAGSYT LHIIKGDDGT RGVTGRFTFT LHLETPKPSI SSSNLNPRET MEAVSLTCDP ETPDASYLWW MNGQSLPMTH SLKLSETNRT LFLLGVTKYT

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	AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINNLNP RENKDVLNFT CEPKSENYTY IWWLNGQSLP VSPRVKRPIE NRILILPSVT RNETGPYQCE IRDRYGGIRS DPVTLNVLYG PDLPRIYPSF TYYRSGEVLY LSCSADSNPP AQYSWTINEK FQLPGQKLFI RHITTKHSGL YVCSVRNSAT GKESSKSMTV 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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