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**Product Data Sheet**


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Product Name: PSG1 Human  
 Cat. No.: GP24254  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Pregnancy Specific Beta-1-Glycoprotein 1; PSBG1; B1G1; Fetal Liver Non-Specific Cross-Reactive Antigen 1/2; Pregnancy-Specific Beta-1 Glycoprotein C/D; CD66 Antigen-Like Family Member F; PS-Beta-C/D; PS-Beta-G-1; FL-NCA-1/2; PSBG-1; PSGGA; PSG95; SP1; Pregnancy-Specific Beta-1-Glycoprotein 1; Pregnancy-Specific B-1 Glycoprotein; Pregnancy-Specific Glycoprotein 1; CD66f Antigen; DHFRP2; PSGIIA; CD66f; PBG1; PSG1.   |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSQVTIEAE PTKVSEGKDV LLLVHNL PQN<br>LTGYIWYKGQ MRDLYHYITS YVDGEIIIY GPAYSGRETA YSNASLLIQN<br>VTREDAGSYT LHIKGGDDGT RGV TGRFTFT LHLETPKPSI SSSNLNPRET<br>MEAVSLTCDP ETPDASYLWW MNGQSLPMTH SLKLSETNRT LFL LGVTKYT<br>AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINNLNP RENKDVLNFT<br>CEPKSENYTY IWWLNGQSLP VSPRVKRPIE NRILILPSVT RNETGPYQCE<br>IRDRYGGIRS DPVTLNVLYG PDLPRIYPSF TYYRSGEVLY LSCSADSNPP<br>AQYSWTINEK FQLPGQKLF RHITTKHSGL YVCSVRNSAT GKESKSM TV<br>EVSGKWIP. |                    |                         |
| Formulation         | The PSG1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.  |                    |                         |

**Introduction**

Pregnancy Specific Beta-1-Glycoprotein 1 (PSG1) is a member of a subgroup of transcription factors which are phosphorylated upon binding to promoter sequences. PSGs belong to the carcinoembryonic antigen (CEA) family and function as early biochemical markers of syncytiotrophoblast formation. Furthermore, PSG1 is assumed to mediate placental vascular morphogenesis by enhancing VEGF-A production and

**Caution: Product has not been fully validated for medical applications. For research use only.**

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endothelial tube formation. PSG1 is a major product of the syncytiotrophoblast, reaching concentrations of 100- 290 mg/l at term in the serum of pregnant women.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

### Background

PSG1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 408 amino acids (35-419) and having a molecular mass of 45.9 kDa. PSG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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