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**Product Data Sheet**


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Product Name: PSG1 Human, Sf9  
 Cat. No.: GP24255  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
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	ADLQVTIEAE PTKVSEGKDV LLLVHNL PQN LTGYI WYKGQ MRDLYHYITS YVVDGEIIY GPAYSGRETA YSNASLLIQN VTREDAGSYT LHIKGGDDGT RGV TGRFTFT LHLETPKPSI SSSNLNPRET MEAVSLTCDP ETPDASYLWW MNGQSLPMTH SLKLSETNRT LFL LGVTKYT AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINLNP RENKDV LNFT CEPKSENYTY IWWLNGQSLP VSPRVKRPIE NRILILPSVT RNETGPYQCE IRDRYGGIRS DPVTLNVLYG PDLPRIYPSF TYYRSGEVLY LSCSADSNPP AQYSWTINEK FQLPGQKLF RHITTKHSGL YVCSVRNSAT GKESKSM TV EVSGKWIPHH HHHH.		
Formulation	PSG1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 20% 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 endothelial tube formation. PSG1 is a major product of the syncytiotrophoblast, reaching

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PSG1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 394 amino acids (35-419a.a.) and having a molecular mass of 44.6kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). PSG1 is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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