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**Product Data Sheet**


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Product Name: PSG5 Human, Sf9

Cat. No.: GP24257

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 5; Pregnancy-Specific Beta-1 Glycoprotein; Fetal Liver Non-Specific Cross-Reactive Antigen 3; Pregnancy-Specific Beta-1-Glycoprotein 5; FL-NCA-3; PS-beta-G-5; PSBG-5; PSG.		
Amino Acid Sequence	ADLQVTIEAL PPKVSEGKDV LLLVHNLQPQN LAGYIWYKGQ LMDLYHYITS YVVDGQINIY GPAYTGRET V YSNASLLIQN VTREDAGSYT LHIKRGDRT RGVTGYFTFN LYLKLPKPYI TINNSKPREN KDVLAFTCEP KSENYTYIWW LNGQSLPVSP RVKRPIENRI LILPSVTRNETGPYECEIRD RDGGMRSDPV TLNVLYGPD L PSYPSFTYY RSGENLYLSC FAESNPPAEY FWTINGKFQQ SGQKLSIPQI TTKHRGLYTC SVRNSATGKE SSKSMTVEVS APSGIGRLPL LNPIHHHHHH		
Formulation	PSG5 protein solution (0.25mg/ml) contains 20mM Tris (pH6.8), 40% glycerol and 1mM DTT.		

**Introduction**

PSG5 belongs to the PSG family, which are a highly connected group of secreted glycoproteins, vastly expressed in fetal placental syncytiotrophoblast cells. PSGs are can be found in serum from the first 2-3 weeks of pregnancy and at higher levels as the pregnancy progresses, up to e point where they are the highest fetal protein found in maternal blood at term. PSG5's role is inducing secretion of TH2-type cytokines from monocytes and modulating the maternal immune system throughout the pregnancy, thus defending the semi-allotypic fetus from rejection.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

PSG5 Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 310 amino acids (35-335 a.a.) and having a molecular mass of 35.1kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). PSG5 is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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