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### Recombinant human PSG5 protein

Catalog Number: ATGP2250

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

35-335aa

#### **UniProt No.**

015238

#### **NCBI Accession No.**

NP 001123486

#### **Alternative Names**

Pregnancy-specific beta-1-glycoprotein 5, FL-NCA-3, PSG

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

36.4 kDa (324aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol

#### **Purity**

> 80% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

PSG5 is a member of the PSG family, a group of closely related secreted glycoproteins that are highly expressed in fetal placental syncytiotrophoblast cells. PSGs become detectable in serum during the first two to three weeks of pregnancy and increase as the pregnancy progresses, eventually representing the most abundant fetal protein in the maternal blood at term. PSG5 function to stimulate secretion of TH2-type cytokines from monocytes, and they may also modulate the maternal immune system during pregnancy, thereby protecting the semi-allotypic fetus from rejection. Recombinant human PSG5 protein, fused to His-tag at N-terminus, was



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expressed in E. coli.

#### **Amino acid Sequence**

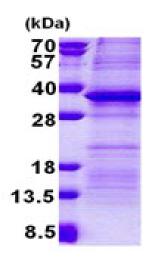
MGSSHHHHHH SSGLVPRGSH MGSQVTIEAL PPKVSEGKDV LLLVHNLPQN LAGYIWYKGQ LMDLYHYITS YVVDGQINIY GPAYTGRETV YSNASLLIQN VTREDAGSYT LHIIKRGDRT RGVTGYFTFN LYLKLPKPYI TINNSKPREN KDVLAFTCEP KSENYTYIWW LNGQSLPVSP RVKRPIENRI LILPSVTRNE TGPYECEIRD RDGGMRSDPV TLNVLYGPDL PSIYPSFTYY RSGENLYLSC FAESNPPAEY FWTINGKFQQ SGQKLSIPQI TTKHRGLYTC SVRNSATGKE SSKSMTVEVS APSGIGRLPL LNPI

#### **General References**

Chan W Y., et al. (1991) Mol Cell Biochem.106:161-170 Panzetta Dutari G M., et al. (2000) Biochem J. 2:511-519.

### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

