

# Human PSG6 / PSG10 Protein (His Tag)

Catalog Number: 13808-H08B



**Sino Biological Inc.**

Biological Solution Specialist

## General Information

### Gene Name Synonym:

CGM3; PSBG-10; PSBG-12; PSBG-6; PSG10; PSG12; PSG6; PSGGB

### Protein Construction:

A DNA sequence encoding the human PSG6 (Met 1-His 424) (NP\_001027020) was expressed, with a C-terminal polyhistidine tag.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 87 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gln 35

### Molecular Mass:

The secreted recombinant human PSG6 consists of 400 amino acids and predicts a molecular mass of 45.2 KDa. The apparent molecular mass of the protein is approximately 58 Kda in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

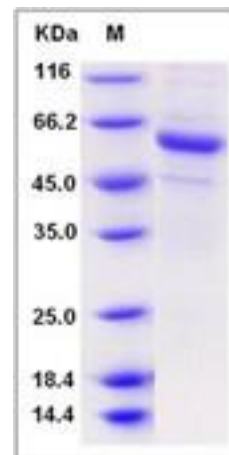
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

PSG6 is a pregnancy-specific glycoprotein(PSG). PSGs are secreted proteins which are produced by the rodent and primate placenta and play a critical role in pregnancy success. The levels of PSGs are highest during the third trimester of pregnancy, a time marked by the most profound suppression of MS disease attacks. PSGs regulate T-cell function. The regulation of T-cell function during pregnancy is likely the result of significant hormonal changes and may well involve immunoregulatory proteins derived from the placenta. Pregnancy specific glycoproteins (PSGs) are the most abundant placentally derived glycoproteins in the maternal serum. PSG1, PSG6, PSG6N, and PSG11 induce dose-dependent secretion of anti-inflammatory cytokines by human monocytes. Human and murine PSGs exhibit cross-species activity.

## References

- 1.Teglund S, *et al.* (1995) Characterization of cDNA encoding novel pregnancy-specific glycoprotein variants. *Biochem Biophys Res Commun.* 211(2):656-64.
- 2.Grimwood J, *et al.* (2004) The DNA sequence and biology of human chromosome 19. *Nature.* 428(6982):529-35.
- 3.Gerhard DS, *et al.* (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). *Genome Res.* 14(10B):2121-7.

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