

Recombinant human PSG5 protein

Catalog Number: ATGP3638

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

35-335aa

UniProt No.

Q15238

NCBI Accession No.

NP_001123486

Alternative Names

Pregnancy-specific beta-1-glycoprotein 5, PSG5, FL-NCA-3, PSG

PRODUCT SPECIFICATION

Molecular Weight

35.1 kDa (310aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 6.8) containing 1mM DTT, 40% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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, also known as pregnancy-specific beta-1-glycoprotein 5, a member of the PSG family that is mainly produced by the placental syncytiotrophoblasts during pregnancy. The function of PSG5 stimulates secretion of TH2-type cytokines from monocytes, and they may also modulate the maternal immune system during pregnancy, thereby protecting the semi-alloypic fetus from rejection. Recombinant human PSG5 protein, fused

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to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADLQVTIEAL PPKVSEGKDV LLLVHNLPQN LAGYIWYKGQ LMDLYHYITS YVVDGQINIY GPAYTGRETV YSNASLLIQN
VTREDAGSYT LHIIKRGDRT RGVTGYFTFN LYLKLPKPYI TINNSKPREN KDVLAFTCEP KSENYTYIWW LNGQSLPVSP
RVKRPIENRI LILPSVTRNE TGPYECEIRD RDGGMRSDPV TLNVLYGPD LPSIYPSFTYY RSGENLYLSC FAESNPPAEY
FWTINGKFQQ SGQKLSIPQI TTKHRGLYTC SVRNSATGKE SSKSMTVEVS APSGIGRLPL LNPIHHHHHH

General References

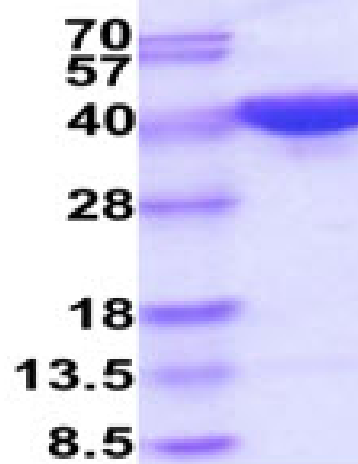
Blanchon L., et al, (2006) Biochem. Biophys. Res. Commun. 343:745-753.

Chan W Y., et al. (1991) Mol Cell Biochem.106:161-170.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)