Recombinant human PSG1 protein

Catalog Number: ATGP3630

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
35-419aa

UniProt No.
P11464

NCBI Accession No.
NP_008836.2

Alternative Names
Pregnancy-specific beta-1-glycoprotein 1, PSG1, B1G1, CD66f, DHFRP2, FL-NCA-1/2, PBG1, PS-beta-C/D, PS-beta-G-1, PSBG-1, PSBG1, PSG95, PSGGA, PSGIIA, SP1

PRODUCT SPECIFICATION

Molecular Weight
44.6 kDa (394aa)

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

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% 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
PSG1, also known as Pregnancy-specific beta-1-glycoprotein 1, is a secreted glycoprotein of the human PSG family within the CEA (carcinoembryonic antigen) superfamily. PSGs (Pregnancy-specific glycoproteins) are a complex consisting of carbohydrate and protein. It is the most abundant protein found in the maternal

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bloodstream during the later stages of pregnancy and is of vital importance in fetal development. The PSG functions primarily as an immune-modulator to protect the growing fetus. Recombinant human PSG1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

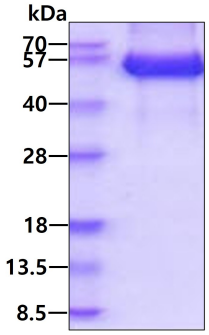
<ADL>QVTIEAE PTKVSEGKDV LLLVHNLPQN LTGYIWYKGQ MRDLYHYITS YVVDGEIIIY GPAYSGRETA YSNASLLIQN VTREDAGSYT LHIIKGDDGT RGVTGRFTFT LHLETPKPSI SSSNLNPRET MEAVSLTCDP ETPDASYLWW MNGQSLPMTH SLKLSETNRT LFLLGVTKYT AGPYECEIRN PVSASRSDPV TLNLLPKLPK PYITINNLNP RENKDVLNFT CEPKSENYTY IWWLNGQSLP VSPRVKRPIE NRILILPSVT RNETGPYQCE IRDRYGGIRS DPVTLNVLYG PDLPRIYPSF TYYRSGEVLY LSCSADSNPP AQYSWTINEK FQLPGQKLFI RHITTKHSGL YVCSVRNSAT GKESSKSMTV EVSGKWIP<HH HHHH>

General References

Ha CT., et al, (2010) Biol Reprod. 83:27-35.
Lisboa FA., et al, (2011) J Biol Chem. 286:7577-7586.

DATA

SDS-PAGE



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