

Active Recombinant Full Length Human PSG1 Protein, C-Flag-tagged

Cat. No. PSG1-696HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PSG1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The human placenta is a multihormonal endocrine organ that produces hormones, enzymes, and other molecules that support fetal survival and development. Pregnancy-specific beta-1-glycoprotein (PSBG, PSG) is a major product of the syncytiotrophoblast, reaching concentrations of 100 to 290 mg/l at term in the serum of pregnant women (Horne et al., 1976 [PubMed 971765]). PSG is a member of the immunoglobulin (Ig) superfamily (Watanabe and Chou, 1988 [PubMed 3257488]; Streydio et al., 1988 [PubMed 3260773]).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Sulfhydration substrate
Molecular Mass	47.7 kDa
AA Sequence	MGTLSPAPCTQRIKWKGLLLTASLLNFWNLPTTAQVTIEAEPKTVSEGKDVLLLVHNL PQNLGTGYIWYKG QMRDLYHYITSYVVDGEIIIYGPAYSGRETAYSNASLLIQNVTRD AGSYTLHIKGGDDGTRGVTGRFTF TLHLETPKPSISSNNLPRETMEAVSLTCDPETP

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DASYLWWMNGQSLPMTHSLKLSETNRTLFLLGVTKY TAGPYECEIRNPVSASRSDP
 VTLNLLPKLPKPYITINNLNPRENKDVLNFTCEPKSENITYIWWLNGQSL PVSPRVK
 RPIENRILILPSVTRNETGPYQCEIRDYGGIRSDPVTNLNLYGPDLPRIYPSFTYYRS
 GEVL YLSCSADSNPQAQYSWTINEKFQLPGQKLFIRHITTKHSGLYVCSVRNSATGK
 ESSKSMTVEVSGKWIPA
 SLAIGFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Secreted Protein
Full Length	Full L.

GENE INFORMATION

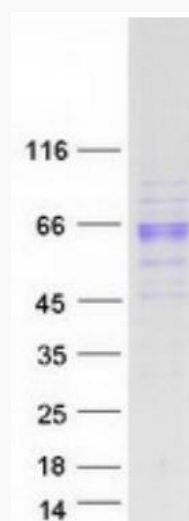
Gene Name	PSG1 pregnancy specific beta-1-glycoprotein 1 [Homo sapiens (human)]
Official Symbol	PSG1
Synonyms	SP1; B1G1; PBG1; CD66f; PSBG1; PSG95; PSGGA; DHFRP2; PSBG-1; PSGIIA; FL-NCA-1/2; PS-beta-C/D; PS-beta-G-1

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Gene ID	5669
mRNA Refseq	NM_006905.3
Protein Refseq	NP_008836.2
MIM	176390
UniProt ID	P11464



Coomassie blue staining of purified PSG1 protein.