

Recombinant Human PSG3 Protein, His-tagged

Cat. No. PSG3-216H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSG3 fused with His tag at C-terminal was expressed in HEK295 cells.
Species	Human
Source	HEK293
Description	The human pregnancy-specific glycoproteins (PSGs) are a family of proteins that are synthesized in large amounts by placental trophoblasts and released into the maternal circulation during pregnancy. Molecular cloning and analysis of several PSG genes has indicated that the PSGs form a subgroup of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily of genes. Members of the CEA family consist of a single N domain, with structural similarity to the immunoglobulin variable domains, followed by a variable number of immunoglobulin constant-like A and/or B domains. Most PSGs have an arg-gly-asg (RGD) motif, which has been shown to function as an adhesion recognition signal for several integrins, in the N-terminal domain (summary by Teglund et al., 1994 [PubMed 7851896]). For additional general information about the PSG gene family, see PSG1 (MIM 176390).
Form	Lyophilized from a 0.2 M filtered solution of 20mM PB, 150mM NaCl, pH7.4
Molecular Mass	45.2kD
AA Sequence	QVTIEAEPTKVSKGKDVLLLVHNLPQNLAGYIWYKGQMKDLYHYITSYVVDGQIIYGP

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AYSGRETVYSNASLLIQNVTRDAGSYTLHIVKRGDGTGETGHFTFTLYLETPKPSI
 SSSNLYPREDMEAVSLTCDPETPDASYLWWMNGQSLPMTHSLQLSKNKRTLFLFG
 VTKYTAGPYECEIRNPVSASRSDPVTNLNLLPKLPKPYITINNLPRENKDVLAFTCEPK
 SENYTYIWWLNGQSLPVSPRVKRPIENRILILPSVTRNETGPYQCEIQDRYGGIRSY
 VTLNVLYGPDLPRIYPSFTYYHSGENLYLSCFADSNPPAEYSWTINGKFQLSGQKLFI
 PQITTKHSGLYACSVRNSATGMESSKSMTVEVSAPSGTGHLPLGLNPLVDHHHHHH*

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name PSG3 pregnancy specific beta-1-glycoprotein 3 [Homo sapiens]

Official Symbol PSG3

Synonyms PSG3; pregnancy specific beta-1-glycoprotein 3; pregnancy-specific beta-1-glycoprotein 3; PSBG-3; PS-beta-G-3; carcinoembryonic antigen SG5; pregnancy-specific glycoprotein 3;

Gene ID 5671

mRNA Refseq NM_021016

Protein Refseq NP_066296

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MIM	176392
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UniProt ID	Q16557
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