

Active Recombinant Human PSG6 protein, His-tagged

Cat. No. PSG6-201H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSG6(Gln35-His424) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	35-424 a.a.
Description	Pregnancy-specific glycoprotein 6 (PSG-6), also known as PSG10 and PSGGB is a secreted glycoprotein of the PSG family within the CEA (carcinoembryonic antigen) superfamily. Mature human PSG-6 is a 401 amino acid (aa) protein that consists of four tandem immunoglobulin-like domains followed by a 30 aa C-terminal tail. The N-terminal Ig-like domain contains an Arg-Gly-Asp (RGD) sequence which is a consensus integrin-binding motif found in many adhesion proteins. Alternative splicing generates an additional isoform with a substitution in the C-terminal tail. PSG-6 is predominantly expressed in placenta and more weakly in granulocytes. It induces monocyte production of the cytokines IL-6, IL-10, and TGF-beta 1.
Predicted N Terminal	No results obtained. Gln35 inferred from enzymatic pyroglutamate treatment revealing Val36
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The

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	ED50 for this effect is 0.9-4.5 µg/mL.
Molecular Mass	Predicted Molecular Mass: 45 kDa SDS-PAGE: 62-73 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in PBS.

GENE INFORMATION

Gene Name	PSG6 pregnancy specific beta-1-glycoprotein 6 [Homo sapiens]
Official Symbol	PSG6
Synonyms	PSG6; pregnancy specific beta-1-glycoprotein 6; pregnancy-specific beta-1-glycoprotein 6; PS-beta-G-6; PS-beta-G-10; PS-beta-G-12; pregnancy-specific beta-1-glycoprotein 10; pregnancy-specific beta-1-glycoprotein 12; PSG10; PSBG-6; PSBG-10; PSBG-12;
Gene ID	5675
mRNA Refseq	NM_001031850

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Protein Refseq	NP_001027020
MIM	176395
UniProt ID	Q00889

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