

**DESCRIPTION**

<b>Source</b>	Human embryonic kidney cell, HEK293-derived Gln35-His424, with a C-terminal 6-His tag Accession # Q00889-2
<b>N-terminal Sequence Analysis</b>	No results obtained. Gln35 inferred from enzymatic pyroglutamate treatment revealing Val36
<b>Predicted Molecular Mass</b>	45 kDa

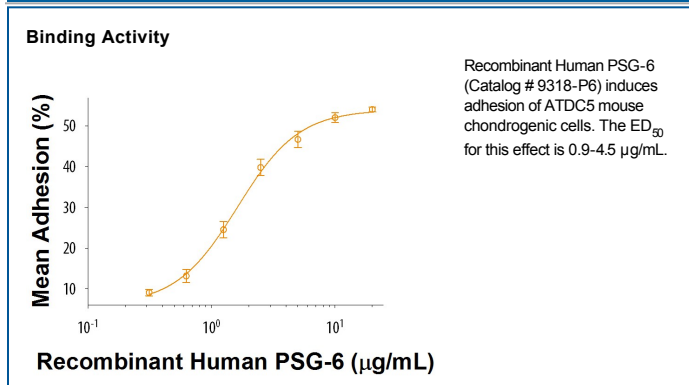
**SPECIFICATIONS**

<b>SDS-PAGE</b>	62-73 kDa, reducing conditions
<b>Activity</b>	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The ED <sub>50</sub> for this effect is 0.9-4.5 µg/mL.
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 500 µg/mL in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**DATA**



**BACKGROUND**

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 (1). 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 (2, 3). 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 (4, 5). 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 (3). It induces monocyte production of the cytokines IL-6, IL-10, and TGF-beta 1 (6).

**References:**

1. Kuespert, K. *et al.* (2006) *Curr. Opin. Cell Biol.* **18**:565.
2. Zimmermann, W. *et al.* (1989) *Biochem. Biophys. Res. Commun.* **163**:1197.
3. Barnett, T.R. *et al.* (1990) *Biochemistry* **29**:10213.
4. Leslie, K.K. *et al.* (1990) *Proc. Natl. Acad. Sci. USA* **87**:5822.
5. Ruoslahti, E. (1996) *Annu. Rev. Cell Dev. Biol.* **12**:697.
6. Snyder, S.K. *et al.* (2001) *Am. J. Reprod. Immunol.* **45**:205.