

## PSG3 Protein, Human, Recombinant (His)

## General Information

Synonyms:	PS-Beta-G-3;Pregnancy-specific $\beta$ -1-glycoprotein 3;Carcinoembryonic Antigen SG5; Pregnancy-specific beta-1-glycoprotein 3;Pregnancy-Specific Glycoprotein 3;PSBG-3.;PS- $\beta$ -G-3
Protein Construction:	Gln35-Leu428
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q16557
Molecular Weight:	55-70 KDa (reducing condition)
AA Sequence:	Gln35-Leu428

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM Citrate, 6% Trehalose, 4% Mannitol, 50 mM NaCl, 0.05% Tween 80, pH 4.5.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Pregnancy-specific beta-1-glycoprotein 3 is also known as Carcinoembryonic Antigen SG5, Pregnancy-Specific Glycoprotein 3, PS-Beta-G-3, PSBG-3. It belongs to the immunoglobulin superfamily. CEA family. It synthesized in large amounts by placental trophoblasts and released into the maternal circulation during pregnancy. Molecular

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Cloning and analysis of several PSG genes has indicated that the PSGs form a subgroup of the carcinoembryonic antigen (CEA) gene family. 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.

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