

SP17 Protein, Human, Recombinant (His)

General Information

Synonyms:	Sperm protein 17;SPA17;CT22;Sp17-1
Protein Construction:	Met1-Lys151
Species:	Human
Expression Host:	E. coli
Accession:	Q15506
Molecular Weight:	18.50 kDa (predicted). The protein migrates to 20-28 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human SP17, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-SP17 Antibody, hFc Tag with the EC50 of 4.1 ng/mL determined by ELISA.(QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris, 150 mM NaCL (pH 8.0). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

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

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Sperm protein 17 (Sp17) is a highly conserved mammalian protein characterized in rabbit, mouse, monkey, baboon, macaque, human testis and spermatozoa. mRNA encoding Sp17 has been detected in a range of murine and human somatic tissues. It was also recognized in two myeloma cell lines and in neoplastic cells from patients

with multiple myeloma and ovarian carcinoma.

Reference

Chiriva-Internati M, et al. Sperm protein 17 is expressed in the sperm fibrous sheath. J Transl Med. 2009 Jul 15;7:6doi: 10.1186/1479-5876-7-6PMID: 19604394; PMCID: PMC2727497.

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