

SPAM1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | PH20;HYAL3;Hyal-PH20;Hyaluronoglucosaminidase PH-20;Sperm surface protein PH-20; SPAM1;Sperm adhesion molecule 1;Hyaluronidase PH-20 |
| Protein Construction: | 36-490 aa |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | P38567 |
| Molecular Weight: | 55.9 kDa (predicted) |
| AA Sequence: | LNFRAPPVIPNVPFLWAWNAPSEFCLGKFDEPLDMSLFSFIGSPRINATGQGVITIFYVDRLGYYPYIDSITGVTV NGGIPQKISLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWPKDVKYKNRSIELVQQQNVQLS LTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKPKGYNGSCFNVEIKRNDDL SWL WNESTALYPSIYLNTQQPVAATLYVRNRVREAIRVSKI PDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGE TVALGASGIVIWGTL SIMRSMKSCLLLDNYMETILNPYIINVT LAAKMCSQVLCQEQGVCIRKNWNSSDYLHLN PDNFAIQLEKGGKFTVRGKPTLEDLEQFSEKFCY SCYSTLSCKEKADVKTDAVDVCIADGVCIDAFLK PPMET EEPQIFYNASPSTLS |

QC Testing

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| 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: | > 85% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

Involved in sperm-egg adhesion. Upon fertilization sperm must first penetrate a layer of cumulus cells that surrounds the egg before reaching the zona pellucida. The cumulus cells are embedded in a matrix containing hyaluronic acid which is formed prior to ovulation. This protein aids in penetrating the layer of cumulus cells by digesting hyaluronic acid.

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