

Human CellExp SPAM1, human recombinant protein
SPAM1, PH-20, HYAL3, HYA1, HYAL1, HYAL5, SPAG15
Catalog # PBV10877r**Specification**

Human CellExp SPAM1, human recombinant protein - Product infoPrimary Accession
Calculated MW[P38567](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 52.1 kDa. The predicted N-terminus is Leu 36. DTT-reduced Protein migrates as 64-66 kDa due to glycosylation. KDa

Human CellExp SPAM1, human recombinant protein - Additional InfoGene ID **6677**
Gene Symbol **SPAM1****Other Names**

SPAM1, PH-20, HYAL3, HYA1, HYAL1, HYAL5, SPAG15

Gene Source **Human**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE; ≥92%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Target/Specificity
SPAM1**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM NaCl, pH 7.0-7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp SPAM1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp SPAM1, human recombinant protein - Images

Human CellExp SPAM1, human recombinant protein - Background

Hyaluronidase PH-20 also known as Sperm adhesion molecule 1 (SPAM1) and Sperm surface protein PH-20, which belongs to the glycosyl hydrolase 56 family, SPAM1 / PH-20 is expressed in testis. SPAM-1 / PH20 random hydrolysis of (1->4)-linkages between N - acetyl - beta - D - glucosamine and D-glucuronate residues in hyaluronate. SPAM-1 / PH20 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. SPAM1 aids in penetrating the layer of cumulus cells by digesting hyaluronic acid.

Human CellExp SPAM1, human recombinant protein - References

Lin Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:10071-10075(1993).
Gmachl M.,et al.FEBS Lett. 336:545-548(1993).
Jones M.H.,et al.Genomics 29:796-800(1995).
Hillier L.W.,et al.Nature 424:157-164(2003).
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