

## Recombinant Human SPAM1 Protein

Cat. No. SPAM1-805H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human SPAM1 protein without tag was expressed in HEK293.

**Species** Human

**Source** HEK293

**ProteinLength** 509

#### Description

Hyaluronidase degrades hyaluronic acid, a major structural proteoglycan found in extracellular matrices and basement membranes. Six members of the hyaluronidase family are clustered into two tightly linked groups on chromosome 3p21.3 and 7q31.3. This gene was previously referred to as HYAL1 and HYA1 and has since been assigned the official symbol SPAM1; another family member on chromosome 3p21.3 has been assigned HYAL1. This gene encodes a GPI-anchored enzyme located on the human sperm surface and inner acrosomal membrane. This multifunctional protein is a hyaluronidase that enables sperm to penetrate through the hyaluronic acid-rich cumulus cell layer surrounding the oocyte, a receptor that plays a role in hyaluronic acid induced cell signaling, and a receptor that is involved in sperm-zona pellucida adhesion. Abnormal expression of this gene in tumors has implicated this protein in degradation of basement membranes leading to tumor invasion and metastasis. Multiple transcript variants encoding different isoforms have been found for this gene.

**Form** Lyophilized

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	52.1 kDa
<b>AA Sequence</b>	<p>MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEF          CLGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKI          SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWPKDVKYKNRSIELVQ          QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK          KPGYNGSCFNVEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR          VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR          SMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYHLNPD          NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFCSCYSTLSCKEKADVKTDAVDVCI          DGVCIDAFLKPPMETEEPQIFYNASPSTLSATMFIVSILFLIISVASL</p>
<b>Purity</b>	> 98%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	<p>This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).          After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18          centigrade for future use.</p>
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	<p>Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted          stock further in other aqueous solutions if needed. Please review COA for lot-specific          instructions. Final measurements should be determined by the end-user for optimal          performance.</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**GENE INFORMATION**

**Gene Name** SPAM1 sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) [ Homo sapiens (human) ]

**Official Symbol** SPAM1

**Synonyms** SPAM1; sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding); hyaluronidase PH-20; HYAL5; PH 20; SPAG15; hyal-PH20; sperm surface protein PH-20; hyaluronoglucosaminidase PH-20; HYA1; PH20; HYAL1; HYAL3; PH-20; MGC26532;

**Gene ID** 6677

**mRNA Refseq** NM\_001174044

**Protein Refseq** NP\_001167515

**MIM** 600930

**UniProt ID** P38567

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA