

Recombinant Human SPAM1 Protein, C-Myc/DDK-tagged

Cat. No. SPAM1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) (SPAM1), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
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.
Molecular Mass	58.2 kDa

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AA Sequence

MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTNFRAPPVIPNVPFLWAWNAPSEF
 CLGKFDEPLDMSLFSFIGSPRINATGQGVTFIFYVDRLGYYPYIDSITGVTVNGGIPQKI
 SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQ
 QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK
 KPGYNGSCFNVEIKRNDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR
 VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR
 SMKSCLLLDNYMETILNPYIINVTLAAMCSQVLCQEQGVCIRKNWNSSDYLHLNPD
 NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSCYSTLSCKEKADVKTDAVDVCA
 DGVCIDAFLKPPMETEEPQIFYNASPSTLSATMFIWRLEVWDQGISRIGFFTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name SPAM1 sperm adhesion molecule 1 [Homo sapiens (human)]

Official Symbol SPAM1

Synonyms SPAM1; sperm adhesion molecule 1; HYA1; PH20; HYAL1; HYAL3; HYAL5; PH-20; SPAG15; HEL-S-96n; hyaluronidase PH-20; PH-20 hyaluronidase; epididymis secretory sperm binding protein Li 96n; hyal-PH20; hyaluronoglucosaminidase PH-20; sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding); sperm surface protein PH-20; EC 3.2.1.35

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Gene ID	6677
mRNA Refseq	NM_003117
Protein Refseq	NP_003108
MIM	600930
UniProt ID	P38567
SDS-PAGE	