

Recombinant Human SPAM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPAM1-1187H Lot. No. (See product label)

SPECIFICATION

Product Overview

SPAM1 MS Standard C13 and N15-labeled recombinant protein (NP_003108) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

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

MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEF
 CLGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKI
 SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWPKDVKYKNRSIELVQ
 QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK
 KPGYNGSCFNVEIKRNDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR
 VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR
 SMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQQVCIRKNWNSSDYHLHNPD
 NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFCSCYSTLSCKEKADVKD TDAVDV CIA
 DGVCIDAFLKPPMETEEPQIFYNASPSTLSATMFIWRLEVWDQGISRIGFFTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol SPAM1

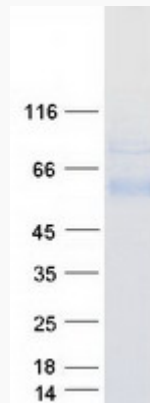
Synonyms SPAM1; sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding); hyaluronidase PH-20; HYAL5; PH 20; SPAG15; hyal-PH20; sperm surface protein PH-20; hyaluronoglucosaminidase PH-20; HYA1; PH20; HYAL1; HYAL3; PH-20;

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MGC26532;

Gene ID 6677**mRNA Refseq** NM_003117**Protein Refseq** NP_003108**MIM** 600930**UniProt ID** P38567**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA