

Recombinant Full Length Human SPAM1 Protein, C-Flag-tagged

Cat. No. SPAM1-868HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human SPAM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

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

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

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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Molecular Mass	58.2 kDa
AA Sequence	<p>MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEF CLGKFDEPLDM SLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKI SLQDHLDKAKKDITFYMPVDNL GMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQ QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLL RPNHLWGYYLFPDCYNHHY KKPGYNGSCFNVEIKRNDLDSWLWNESTALYPSIYLNTQQSPVAATLYVRN RVREA IRVSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIM RSMKS CLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNP DNFAIQLEKGGKFTVRGK PTLEDLEQFSEKFYCSCYSTLSCKEKADVKD TDAVDVCI ADGVCIDAFLKPPMETEEPQIFYNASPSTLS ATMFIWRLEVWDQGISRIGFFTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Glycosaminoglycan degradation, Metabolic pathways
Full Length	Full L.

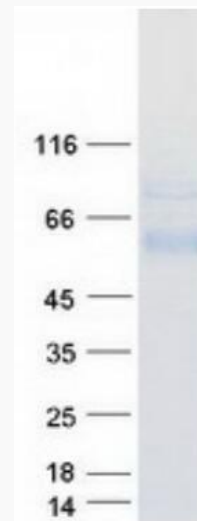
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GENE INFORMATION

Gene Name	SPAM1 sperm adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	SPAM1
Synonyms	HYA1; PH20; HYAL1; HYAL3; HYAL5; PH-20; SPAG15; HEL-S-96n
Gene ID	6677
mRNA Refseq	NM_003117.5
Protein Refseq	NP_003108.2
MIM	600930
UniProt ID	P38567



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Coomassie blue staining of purified SPAM1 protein.

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