

## Active Recombinant Human SPAM1 protein, His-tagged

Cat. No. SPAM1-738H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SPAM1 protein(Leu 36 - Tyr 482), fused with His tag, was expressed in HEK293.                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Leu 36 - Tyr 482                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM NaCl, pH7.5, 10% trehalose.                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | The activity of Human PH20, His Tag is measured by its ability to hydrolyze HA in turbidimetric assay (45 minute assay). The specific activity is >60,000 U/mg. (Unit Definition: One unit of Hyaluronidase activity will cause a change in A600 of 0.330 per minute at pH5.35 at 37 °C in a 2.0 mL reaction mixture). |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 53.0 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                               |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                        |

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**Storage** For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

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

**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

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