

# Recombinant Human Spermidine Synthase, His-tagged

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

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human SRM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 36kDa (322aa)                                                                                                                                                                                                                                                      |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>              | SRM is an enzyme that catalyzes the transfer of the propylamine group from S-adenosylmethioninamine to putrescine in the biosynthesis of spermidine. The polyamines putrescine, spermine, and spermidine are ubiquitous polycationic mediators of cell growth and differentiation. This protein is one of four enzymes in the polyamine-biosynthetic pathway and carries out the final step of spermidine biosynthesis. |
| <b>Sequences of amino acids</b> | MGSSHHHHH SSGLVPRGSH MEPGPDGPAA SGPAIREGW FRETCSLWPG<br>QALSLQVEQL LHHRRSRYQD ILVFRSKTYG NVLVLDGVIQ CTERDEFSYQ<br>EMIANLPLCS HPNPRKVLII GGGDGGVLRE VVKHPSVESV VQCEIDEDVI<br>QVSKKFLPGM AIGYSSSKLT LHVGDGFEFM KQNQDAFDVI ITDSSDPMGP<br>AESLFKESYY QLMKTALKED GVLCCQGECQ WLHLDLIKEM RQFCQSLFPV<br>VAYAYCTIPT YPSGQIGFML CSKNPSTNFQ EPVQPLTQQQ VAQMQLKYYN<br>SDVHRAAFVL PEFARKALND VS                                      |
| <b>Formulation</b>              | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.                                                                                                                                                                                                                                                                                                                                   |

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|                            |                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | > 95 % by SDS – PAGE                                                                                                                                  |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                |
| <b>Storage</b>             | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| <b>GENE INFORMATION</b>    |                                                                                                                                                       |
| <b>Gene Name</b>           | SRM spermidine synthase [ Homo sapiens ]                                                                                                              |
| <b>Synonyms</b>            | spermidine synthase; SPDSY; SPS1; PAPT; putrescine aminopropyltransferase; spermidine synthase-1; SRML1; EC 2.5.1.16; SRM                             |
| <b>Gene ID</b>             | 6723                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_003132                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_003123                                                                                                                                             |
| <b>MIM</b>                 | 182891                                                                                                                                                |
| <b>UniProt ID</b>          | P19623                                                                                                                                                |
| <b>Chromosome Location</b> | 1p36-p22                                                                                                                                              |
| <b>Pathway</b>             | Arginine and proline metabolism; Cysteine and methionine metabolism; Glutathione metabolism; Metabolic pathways; beta-Alanine metabolism              |
| <b>Function</b>            | Spermidine synthase activity; transferase activity                                                                                                    |

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