

Recombinant Human Spermidine Synthase, His-tagged

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

SPECIFICATION

Product Overview	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)
Species	Human
Source	E.coli
Description	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.
Sequences of amino acids	MGSSHHHHH SSGLVPRGSH MEPGPDGPAA SGPAIREGW FRETCSLWPG QALSLQVEQL LHHRRSRYQD ILVFRSKTYG NVLVLDGVIQ CTERDEFSYQ EMIANLPLCS HPNPRKVLII GGGDGGVLRE VVKHPSVESV VQCEIDEDVI QVSKKFLPGM AIGYSSSKLT LHVGDGFEFM KQNQDAFDVI ITDSSDPMGP AESLFKESYY QLMKTALKED GVLCCQGECQ WLHLDLIKEM RQFCQSLFPV VAYAYCTIPT YPSGQIGFML CSKNPSTNFQ EPVQPLTQQQ VAQMQLKYYN SDVHRAAFVL PEFARKALND VS
Formulation	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

 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

Purity	> 95 % by SDS – PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	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.
GENE INFORMATION	
Gene Name	SRM spermidine synthase [Homo sapiens]
Synonyms	spermidine synthase; SPDSY; SPS1; PAPT; putrescine aminopropyltransferase; spermidine synthase-1; SRML1; EC 2.5.1.16; SRM
Gene ID	6723
mRNA Refseq	NM_003132
Protein Refseq	NP_003123
MIM	182891
UniProt ID	P19623
Chromosome Location	1p36-p22
Pathway	Arginine and proline metabolism; Cysteine and methionine metabolism; Glutathione metabolism; Metabolic pathways; beta-Alanine metabolism
Function	Spermidine synthase activity; transferase activity

 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