

Recombinant Human SRM, His-tagged

Cat. No. SRM-30397TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Spermidine synthase with an N terminal His tag. Predicted mwt: 36 kDa.
Species	Human
Source	E.coli
ProteinLength	302 amino acids
Description	The polyamines putrescine, spermine, and spermidine are ubiquitous polycationic mediators of cell growth and differentiation. Spermidine synthase is one of four enzymes in the polyamine-biosynthetic pathway and carries out the final step of spermidine biosynthesis. This enzyme catalyzes the conversion of putrescine to spermidine using decarboxylated S-adenosylmethionine as the cofactor.
Conjugation	HIS
Molecular Weight	36.000kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MEPGPDGPAA SGPAAREGW 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
Sequence Similarities	Belongs to the spermidine/spermine synthase family.
GENE INFORMATION	
Gene Name	SRM spermidine synthase [Homo sapiens]
Official Symbol	SRM
Synonyms	SRM; spermidine synthase; SRML1; SPS1;
Gene ID	6723
mRNA Refseq	NM_003132
Protein Refseq	NP_003123
MIM	182891
Uniprot ID	P19623

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Chromosome Location	1p36-p22
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Glutathione metabolism, organism-specific biosystem;
Function	protein homodimerization activity; spermidine synthase activity; transferase activity;

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