

**SRM, 1-302aa, Human, His tag, E.coli**

**Cat.NO.: TP04030**

3th Edition

**Synonyms:**Spermidine synthase , PAPT, SPDSY, SPS1, SRML1

**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. Recombinant human SRM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

**Molecular Weight:**36 kDa (322aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMEPGPDGPAASGPAAIREGWFRETCSLWPGQALSQVEQLLHRRSRYQDILVF  
RSKTYGNVLVLDGVIQCTERDEFQEMIANLPLCSHPNPRKVLIIIGGGDGGVLREVVKHPSVESVQCEIDEDVIQ  
VSKKFLPGMAIGYSSSKLTLHVGDFEFMKQNQDAFDVIITDSSDPMGPAESLFKESYYQLMKTALKEDGVLCCQG  
ECQWLHLDLIKEMRQFCQSLFPVVAYAYCTIPTYPSGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMQLKYYNSD  
VHRAAFVLPEFARKALNDVS

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.