
Product Data Sheet

Product Name: SRM Human
 Cat. No.: GP22257
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Spermidine synthase; SPDSY; Putrescine aminopropyltransferase; SRM; SPS1; SRML1; PAPT.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MEPGPDGPAA SGPAIREGW FRETCSLWPG QALSLQVEQL LHHRRSRYQD ILVFRSKTYG NVLVLDGVIQ CTERDEFSYQ EMIANLPLCS HPNPRKVLII GGGDGGVLRV VVKHPSVESV VQCEIDEDVI QVSKKFLPGM AIGYSSSKLT LHVGDGFEFM KQNQDAFDVI ITDSSDPMGP AESLFKESYY QLMKTALKED GVLCCQGECQ WLHLDLIKEM RQFCQSLFPV VAYAYCTIPT YPSGQIGFML CSKNPSTNFQ EPVQPLTQQQ VAQMQLKYYN SDVHRAAFVL PEFARKALND VS.		
Formulation	The SRM solution (1 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.		

Introduction

SRM is an enzyme which 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. The SRM protein is one of four enzymes in the polyamine-biosynthetic pathway and completes the final step of spermidine biosynthesis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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SRM Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 322 amino acids (1-302 a.a.) and having a molecular mass of 36kDa. The SRM is purified by proprietary chromatographic techniques.

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