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**Product Data Sheet**


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Product Name: SMS Human  
 Cat. No.: GP22251  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Spermine synthase; SPMSY; Spermidine aminopropyltransferase; SMS; SRS; SpS; MRSR.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAARH STLDFMLGAK ADGETILKGL QSIFQEQGMA ESVHTWQDHG YLATYTNKNG SFANLRIYPH GLVLLDLQSY DGDAQGKEEI DSILNKVEER MKELSQDSTG RVKRLPIVIR GGAIIDRYWPT ADGRLVEYDI DEVVYDEDSP YQNIKILHSK QFGNILILSG DVNLAESDLA YTRAIMGSGK EDYTGKDVLI LGGGDGGILC EIVKCLKPKMV TMVEIDQMVI DGCKKYMRKT CGDVLNCLKG DCYQVLIEDC IPVLKRYAKE GREFDYVIND LTAVPISTSP EEDSTWEFLR LILDLSMKVL KQDGKYFTQG NCVNLTEALS LYEEQLGRLY CPVEFSKEIV CVPSYLELWV FYTVWKKAKP.		
Formulation	The SMS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.		

**Introduction**

Spermine synthase (SMS) is a member of the spermidine/spermine synthase family. SMS is an enzyme which converts spermidine into spermine. The SMS enzyme is essential for normal viability, growth and fertility involved in polyamine metabolism. Defects in the SMS gene are the cause of Snyder-Robinson syndrome (SRS), also known as X-linked mental retardation Snyder-Robinson type. SRS is categorized by moderate intellectual deficit, hypotonia, an unsteady gait, osteoporosis, kyphoscoliosis and facial asymmetry, its transmission is X-linked recessive.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SMS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 390 amino acids (1-366) and having a molecular mass of 43.8kDa. SMS is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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