

## SMS Human

**Description:** 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.

**Catalog #:** ENPS-237

For research use only.

**Synonyms:** Spermine synthase, SPMSY, Spermidine aminopropyltransferase, SMS, SRS, SpS, MRSR.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMAAARH STLDFMLGAK  
ADGETILKGL QSIFQEQGMA ESVHTWQDHG YLATYTNKNG SFANLRIYPH GLVLLDLQSY  
DGDAQGKEEI DSILNKVEER MKELSQDSTG RVKRLPPIVR GGAIIDRYWPT ADGRLVEYDI  
DEVVYDEDSP YQNIKILHSK QFGNIIILSG DVNLAESDLA YTRAIMGSGK EDYTGKDVLI  
LGGGDGGILC EI

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The SMS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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