Product information



SMS, 1-366aa

Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP1358

Full name: Spermine synthase NCBI Accession No.: NP_004586

Synonyms: MRSR, SPMSY, SpS, SRS

Description: SMS (Spermine synthase) belongs to the spermidine/spermine synthase family. It is an enzyme that converts spermidine into spermine. This enzyme is required for normal viability, growth and fertility involved in polyamine metabolism. Defects in SMS are the cause of Snyder-Robinson syndrome (SRS), also known as X-linked mental retardation Snyder-Robinson type. SRS is characterized by moderate intellectual deficit, hypotonia, an unsteady gait, osteoporosis, kyphoscoliosis and facial asymmetry. Transmission is X-linked recessive. Recombinant human SMS protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

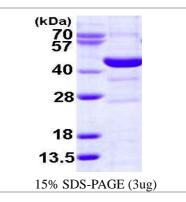
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,

10% glycerol, 100mM NaCl

Molecular Weight: 43.8kDa (390aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

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



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMAAARH STLDFMLGAK ADGETILKGL QSIFQEQGMA ESVHTWQDHG YLATYTNKNG SFANLRIYPH GLVLLDLQSY DGDAQGKEEI DSILNKVEER MKELSQDSTG RVKRLPPIVR GGAIDRYWPT ADGRLVEYDI DEVVYDEDSP YQNIKILHSK QFGNILILSG DVNLAESDLA YTRAIMGSGK EDYTGKDVLI LGGGDGGILC EIVKLKPKMV TMVEIDQMVI DGCKKYMRKT CGDVLDNLKG DCYQVLIEDC IPVLKRYAKE GREFDYVIND LTAVPISTSP EEDSTWEFLR LILDLSMKVL KQDGKYFTQG NCVNLTEALS LYEEQLGRLY CPVEFSKEIV CVPSYLELWV FYTVWKKAKP

General references:

Cason A.L., et al. (2003) Eur. J. Hum. Genet. 11:937-944 Sowell J, et al. (2011) Clin Chim Acta. 18;412(7-8):655-60.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Email: info@ibl-america.com Web: www.ibl-america.com