

Recombinant Human SMS, His-tagged

Cat. No. SMS-30398TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Spermine synthase with N terminal His tag; 390 amino acids with tag, Predicted MWt 43.8 kDa.
Species	Human
Source	E.coli
ProteinLength	366 amino acids
Description	The protein encoded by this gene belongs to the spermidine/spermine synthases family. This gene encodes an ubiquitous enzyme of polyamine metabolism.
Conjugation	HIS
Molecular Weight	43.800kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol, 0.58% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

MGSSHHHHHSSGLVPRGSHMGSHMAAARHSTLDFMLGAK ADGETILKGLQSIFQ
 EQGMAESVHTWQDHGYLATYTNKNG SFANLRIYPHGLVLLDLQSYDGDAAQKKEI
 DSILNKVEER MKELSQDSTGRVKRLPPIVRGG AIDRYWPTADGRLVEYDI DEVVYD
 EDSPYQNIKILHSKQFGNILILSGDVNLAESDLA YTRAIMGSGKEDYTGKDVLILGGG
 DGGILCEIVKLKPKMV TMVEIDQMVIDGCKKYMRKTCGDVLDNLKGDCYQVLIEDC I
 PVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLR LILDLSMKVLKQDGKYFTQ
 GNCVNLTEALSLYEEQLGRLY CPVEFSKEIVCVPSYLELWVFYTVWKKAKP

Sequence Similarities

Belongs to the spermidine/spermine synthase family.

GENE INFORMATION

Gene Name SMS spermine synthase [Homo sapiens]

Official Symbol SMS

Synonyms SMS; spermine synthase; Snyder Robinson X linked mental retardation syndrome , SRS; MRSR; SPMSY; SpS;

Gene ID 6611

mRNA Refseq NM_004595

Protein Refseq NP_004586


MIM 300105

Uniprot ID P52788

Chromosome Location Xp22.1

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Pathway

Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Glutathione metabolism, organism-specific biosystem;

Function

spermidine synthase activity; spermine synthase activity; transferase activity;

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