

## Product datasheet for PH300619

### Spermine synthase (SMS) (NM\_004595) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SMS MS Standard C13 and N15-labeled recombinant protein (NP_004586)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200619
Predicted MW:	41.3 kDa
Protein Sequence:	>RC200619 protein sequence Red=Cloning site Green=Tags(s)
	MAAARHSTLDFMLGAKADGETILKGLQSIHQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVL LDLQSYDQDAQKKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVV YDEDSYQNIKILHSKQFGNIIILSGDVNLAESDLAYTRAIMSGKEDYTGKDVILGGDGGILCEIVK LKPKMVTMVEIDQMVIDGCKKYMRTKCGDVLNLLKGDYQVLIEDCIPVLKRYAKEGREFDYVINDLTAV PISTSPPEEDSTWEFLRLILDLSMKVLKQDGKYFTQGNVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPS YLELWVFYTVWKKAKP
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004586</a>
RefSeq Size:	1868
RefSeq ORF:	1098
Synonyms:	MRSR; SPMSY; SpS; SRS
Locus ID:	6611



[View online »](#)

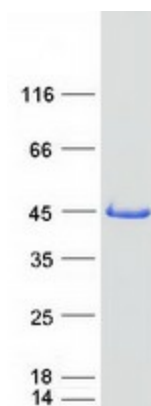
UniProt ID: [P52788](#)

Cytogenetics: Xp22.11

**Summary:** This gene encodes a protein belonging to the spermidine/spermin synthase family and catalyzes the production of spermine from spermidine. Pseudogenes of this gene are located on chromosomes 1, 5, 6 and X. Mutations in this gene cause an X-linked intellectual disability called Snyder-Robinson Syndrome (SRS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]

**Protein Pathways:** Arginine and proline metabolism, beta-Alanine metabolism, Cysteine and methionine metabolism, Glutathione metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified SMS protein (Cat# [TP300619]). The protein was produced from HEK293T cells transfected with SMS cDNA clone (Cat# [RC200619]) using MegaTran 2.0 (Cat# [TT210002]).