

## Product datasheet

# Recombinant Human Spermine synthase protein ab116202

1 Image

### Overview

<b>Product name</b>	Recombinant Human Spermine synthase protein
<b>Protein length</b>	Full length protein

### Description

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P52788</a>
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHHSSGLVPRGSHMGSHMAAARHSTLDFMLGAKADGETILKGL QSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQSY DGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPVIRGGVIDRYWPT ADGRLVEYDIDEVVYDEDESPYQNIKILHSKQFGNILILSGDVNLAESDLA YTRAIMGSGKEDYTGKDVLLILGGDGGILCEIVKLPKPMVTMVEIDQMVI DGCKKYMRKTCGDVLDNLKGDYQVLIEDCIPVLKRYAKEGREFDYVIND LTAVPISTSPPEEDSTWEFLRLILDLSMKVLKQDGKYFTQGNCVNLTEALS LYEEQLGRLYCPVEFSKEIVCVPSYLELWVWFYTVWKKAKP
<b>Molecular weight</b>	44 kDa including tags
<b>Amino acids</b>	1 to 366
<b>Tags</b>	His tag N-Terminus

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab116202** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Mass Spectrometry SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Purity</b>	> 90 % SDS-PAGE.

ab116202 was purified using conventional chromatography techniques.

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol, 0.58% Sodium chloride

## General Info

**Function** Required for normal viability, growth and fertility.

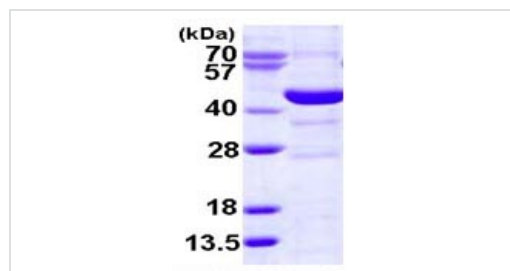
**Pathway** Amine and polyamine biosynthesis; spermine biosynthesis; spermine from spermidine: step 1/1.

**Involvement in disease** Defects in SMS are the cause of Snyder-Robinson syndrome (SRS) [MIM:309583]; 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.

**Sequence similarities** Belongs to the spermidine/spermine synthase family.

**Domain** Composed of 3 domains: the N-terminal domain has structural similarity to S-adenosylmethionine decarboxylase, the central domain is made up of four beta strands and the C-terminal domain is similar in structure to spermidine synthase. The N- and C-terminal domains are both required for activity.

## Images



15% SDS-PAGE analysis of 3 µg ab116202.

SDS-PAGE - Spermine synthase protein (ab116202)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We provide support in Chinese, English, French, German, Japanese and Spanish

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