abcam

Product datasheet

Recombinant Human Spermine synthase protein ab116202

1 Image

Overview

Product name	Recombinant Human Spermine synthase protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P52788
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSHMAAARHSTLDFMLGAKADGETILKGL QSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQSY DGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPT ADGRLVEYDIDEVVYDEDSPYQNIKILHSKQFGNILILSGDVNLAESDLA YTRAIMGSGKEDYTGKDVLILGGGDGGILCEIVKLKPKMVTMVEIDQMVI DGCKKYMRKTCGDVLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVIND LTAVPISTSPEEDSTWEFLRLILDLSMKVLKQDGKYFTQGNCVNLTEALS LYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP
Molecular weight	44 kDa including tags
Amino acids	1 to 366
Tags	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.

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

	ab116202 was purified using conventional chromatography techniques.
Form	Liquid

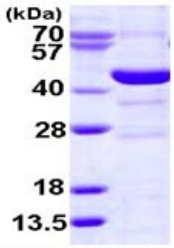
Preparation and Storage

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



SDS-PAGE - Spermine synthase protein (ab116202)

15% SDS-PAGE analysis of 3 µg ab116202.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors