

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

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MGSSHHHHHHSSGLVPRGSHMGSHMAAARHSTLDF
MLGAKADGETILKGL
QSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRY
PHGLVLLDLQSY
DGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPI
VRGGAIDRYWPT
ADGRLVEYDIDEVVYDEDSPYQNIKILHSKQFGNILLSG
DVNLAESDLA
YTRAIMGSGKEDYTGKDVLILGGDGGILCEIVKLPKM
VTMVEIDQMVI
DGCKKYMRTKCGDVLNLDNLKGDYQVLIEDCIPVLKRY
AKEGREFDYVIND
LTAVPISTSPPEEDSTWEFLRLILDLSMKVLKQDGKYFT
QGNCVNLTEALS
LYEEQLGRLYCPVEFSKEMCVPSYLELWVFYTVWKA
KP
    
```

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

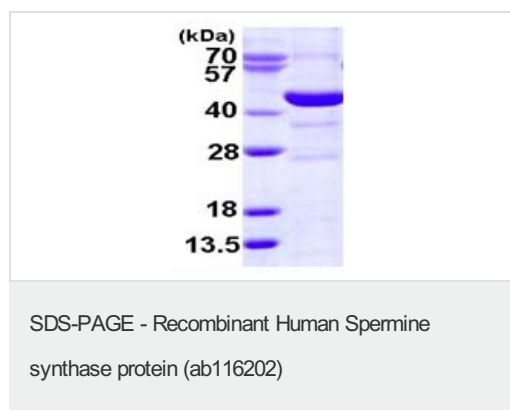
Preparation and Storage

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
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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.

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