

Datasheet for ABIN1095568
SAT1 Protein (AA 5-171) (GST tag)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	SAT1
Protein Characteristics:	AA 5-171
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SAT1 protein is labelled with GST tag.
Application:	ELISA

Product Details

Sequence:	VIRPATAADC SDILRLIKEL AKYEYMEEQV ILTEKDILLED GFGEHPFYHC LVAEVPKEHW TPEGHSIVGF AMYYFTYDPW IGKLLYLEDF FVMSDYRGFG IGSEILKNLS QVAMRRCRSS MHFLVAEWNE PSINFYKRRG ASDLSSEEGW RLFKIDKEYL LKMATEE
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

Target Details

Target:	SAT1
Alternative Name:	Diamine acetyltransferase 1 protein (SAT1 Products)
Background:	Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine =

Target Details

spermidine >> spermine > N(1)-acetylspermine > putrescine. This highly regulated enzyme allows a fine attenuation of the intracellular concentration of polyamines. Also involved in the regulation of polyamine transport out of cells. Acts on 1,3-diaminopropane, 1,5-diaminopentane, putrescine, spermidine (forming N(1)- and N(8)-acetylspermidine), spermine, N(1)-acetylspermidine and N(8)-acetylspermidine.

Molecular Weight: 46.9 kD

UniProt: [P21673](#)

Application Details

Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: PBS-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

Storage: -20 °C

Storage Comment: Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

Publications

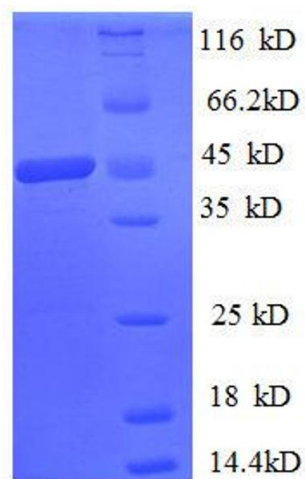
Product cited in: Xiao, Celano, Mank, Griffin, Jabs, Hawkins, Casero: "Structure of the human

spermidine/spermine N1-acetyltransferase gene (exon/intron gene organization and localization to Xp22.1)." in: **Biochemical and biophysical research communications**, Vol. 187, Issue 3, pp. 1493-502, (1992) ([PubMed](#)).

Casero, Celano, Ervin, Applegren, Wiest, Pegg: "Isolation and characterization of a cDNA clone that codes for human spermidine/spermine N1-acetyltransferase." in: **The Journal of biological chemistry**, Vol. 266, Issue 2, pp. 810-4, (1991) ([PubMed](#)).

Xiao, Celano, Mank, Pegg, Casero: "Characterization of a full-length cDNA which codes for the human spermidine/spermine N1-acetyltransferase." in: **Biochemical and biophysical research communications**, Vol. 179, Issue 1, pp. 407-15, (1991) ([PubMed](#)).

Images



SDS-PAGE

Image 1. Spermidine/spermine N1-Acetyltransferase 1 (SAT1) (AA 5-171) protein (GST tag)