

Recombinant human SAT1 protein

Catalog Number: ATGP0364

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-171aa

UniProt No.

P21673

NCBI Accession No.

NP_002961

Alternative Names

spermidine/spermine N1-acetyltransferase 1, DC21, KFSD, KFSDX, SAT, SSAT, SSAT-1, SAT1, Diamine acetyltransferase 1, EC 2.3.1.57, Polyamine N-acetyltransferase 1, Putrescine acetyltransferase, Spermidine/spermine N(1)-acetyltransferase 1, SSAT 1.

PRODUCT SPECIFICATION

Molecular Weight

22.1 kDa (191aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Diamine N-acetyltransferase 1 (or Spermidine/spermine-N1-acetyltransferase, SSAT1), as known as SAT-1, is a polyamine catabolic enzyme which catalyzes the acetylation of polyamines. This protein plays an important role in polyamine homeostasis, since acetylated products are either excreted from the cell or oxidized by acetyl polyamine oxidase. A variety of other effects of increased SAT-1 activity include death of pancreatic cells,

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blockage of regenerative tissue growth, behavioral changes, keratosis follicularis spinulosa decalvans (KFSD), and hair loss. Recombinant human SAT-1, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

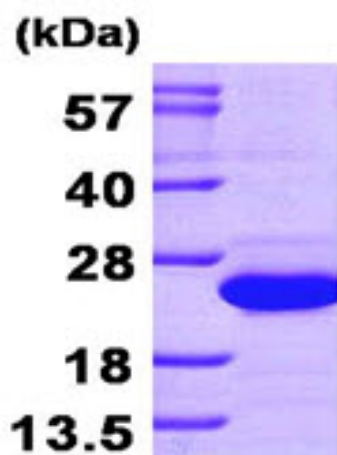
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General References

Pegg AE., et al. (2008). *Am J Physiol Endocrinol Metab.* 294: E995-E1010,
Janne J., et al. (2006). *J Cell Mol Med.* 10(4):933-45.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)