

Spermidine/Spermine N1-Acetyltransferase 1 Recombinant Protein | SAT1 recombinant protein

Recombinant Human Spermidine/Spermine N1-Acetyltransferase 1

CATALOG # AAA38767	HOST E Coli
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PRODUCT SYNONYMS

Spermidine/Spermine N1-Acetyltransferase 1; Recombinant Human Spermidine/Spermine N1-Acetyltransferase 1; SAT1 Human; Spermidine/Spermine N1-Acetyltransferase 1 Human Recombinant; Diamine acetyltransferase 1; Spermidine/spermine N(1)-acetyltransferase 1; Putrescine acetyltransferase; Polyamine N-acetyltransferase 1; SSAT-1; SSAT; SAT1; SAT; DC21; KFSD; KFSDX; SAT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The SAT1 solution contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMAK FVIRPATAAD CSDILRLIKE LAKYEYMEEQ VILTEKDLLE DGFGEHPFYH CLVAEVPKEH WTPEGHSIVG FAMYYFTYDP WIGKLLYLED FFVMSDYRGF GIGSEILKNL SQVAMRCRCS SMHFLVAEWN EPSINFYKRR GASDLSSEEG WRLFKIDKEY LLKMATEE
Sequence Length	171
Physical Appearance	Sterile Filtered colorless solution.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for SAT1 recombinant protein	Description: SAT1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids (1-171 a.a.) and having a molecular mass of 22.1kDa. The SAT1 is purified by proprietary chromatographic techniques. Introduction: SAT-1 is a member the acetyltransferase family, and is a rate-limiting enzyme in the catabolic pathway of polyamine metabolism. SAT1 catalyzes the acetylation of spermidine and spermine, and is involved in the regulation of the intracellular concentration of polyamines and their transport out of cells. Therefore, SAT-1's role is essential in polyamine homoeostasis, given that acetylated products are either excreted from the cell or oxidized by acetylpolyamine oxidase. Increased SAT1 activity causes variety of other effects which include pancreatic cells death, obstruction of regenerative tissue growth, behavioral changes, keratosis follicularis spinulosa decalvans (KFSD), and hair loss. Defects in the SAT1 gene are linked to KFSD (keratosis follicularis spinulosa decalvans), which is a rare X-linked disorder affecting the skin and the eye. The KFSD affected men show thickening of the skin of the neck, ears, and extremities, particularly the palms and soles, loss of eyebrows, eyelashes and beard, thickening of the eyelids with blepharitis and ectropion, and corneal degeneration. Even though the majority of the affected families are compatible with an X-linked inheritance, KFSD are found to be clinically and genetically heterogeneous.
Product Categories/Family for SAT1 recombinant protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506789
NCBI GeneID	6303
NCBI Accession #	NP_002961.1
NCBI GenBank Nucleotide #	NM_002970.3
UniProt Accession #	P21673
NCBI Official Full Name	diamine acetyltransferase 1
NCBI Official Synonym Full Names	spermidine/spermine N1-acetyltransferase 1
NCBI Official Symbol	SAT1
NCBI Official Synonym Symbols	SAT; DC21; KFSD; SSAT; KFSDX; SSAT-1
NCBI Protein Information	diamine acetyltransferase 1; diamine N-acetyltransferase 1; polyamine N-acetyltransferase 1; putrescine acetyltransferase; spermidine/spermine N1-acetyltransferase alpha
UniProt Protein Name	Diamine acetyltransferase 1
UniProt Gene Name	SAT1
UniProt Synonym Gene Names	SAT; SSAT; SSAT-1
UniProt Entry Name	SAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sat1-recombinant-protein-e-coli/38767>