

Recombinant Human SAT1, His-tagged

Cat. No. SAT1-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SAT-1, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 22.1 kDa (191aa).
Species	Human
Source	E.coli
Description	Diamine N-acetyltransferase 1(or Spermidine/spermine-N1-acetyltransferase, SSAT 1), 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 acetylpolyamine oxidase. A variety of other effects of increased SAT-1 activity include death of pancreatic cells, blockage of regenerative tissue growth, behavioral changes, keratosis follicularis spinulosa decalvans(KFSD), and hair loss.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAKFVIRPAT AADCSDILRL IKELAKYEYM EEQVILTEKD LLEDGFGEHP FYHCLVAEVP KEHWTPEGHS IVGFAMYYFT YDPWIGKLLY LEDFFVMSDY RGFGIGSEIL KNLSQVAMRC RCSSMHFLVA EWNPSINFY KRRGASDLSS EEGWRLFKID KEYLLKMATE E.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing, 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

SAT1 spermidine/spermine N1-acetyltransferase 1 [Homo sapiens]

Synonyms

SAT1; spermidine/spermine N1-acetyltransferase 1; SAT; DC21; KFSD; SSAT; KFSDX; SSAT-1; diamine acetyltransferase 1; spermidine/spermine N1-acetyltransferase alpha; EC 2.3.1.57; Putrescine acetyltransferase; Polyamine N-acetyltransferase 1; OTTHUMP00000023061; spermidine/spermine N1-acetyltransferase; spermidine/spermine N1-acetyltransferase 1; Spermidine/spermine N(1)-acetyltransferase 1

Gene ID

6303

mRNA Refseq

NM_002970

Protein Refseq

NP_002961

MIM

313020

UniProt ID

P21673

Chromosome Location

Xp22.1

Pathway

Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids; Metabolism of polyamines

Function

acyltransferase activity; diamine N-acetyltransferase activity; protein binding;

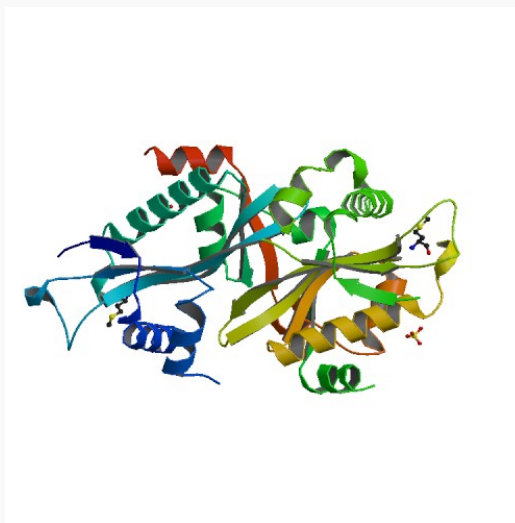
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transferase activity

PDB rendering based
on 2b3u.



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