

AR09245PU-N

Human SAT1 (1-171, His-tag) - Purified

Alternate names:

Diamine acetyltransferase 1, Polyamine N-acetyltransferase 1, Putrescine acetyltransferase, SAT, SSAT, SSAT-1, Spermidine/spermine N(1)-acetyltransferase 1

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 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.

Uniprot ID:

[P21673](#)

NCBI:

[NP_002961](#)

GenelD:

[6303](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Description:

Recombinant human SAT-1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAKFVIRPAT AADCSDILRL IKELAKYEYM EEQVILTEKD
LLEDGFGEHP FYHCLVAEVP KEHWTPEGHS IVGFAMYYFT YDPWIGKLLY LEDFFVMSDY
RGFGIGSEIL KNLSQVAMRC RCSSMHFLVA EWNEPSINFY KRRGASDLSS EEGWRLFKID
KEYLLKMATE E

Molecular weight: 22.1 kDa (191 aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

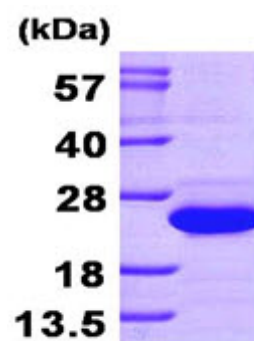
Shelf life: one year from despatch.

General Readings:

Pegg AE., et al. (2008). Am J Physiol Endocrinol Metab. 294: E995-E1010.

Jänne J., et al. (2006). J Cell Mol Med. 10(4):933-45.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human Diamine N-acetyltransferase 1, 1-171 aa, His-tagged:
15% SDS-PAGE (3 μ g)

