Diamine Acetyltransferase 1

Cat. No. CBCRY21 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Source	E.coli
Background	Spermidine/spermine N(1)-acetyltransferase (SSAT; EC 2.3.1.57) is a rate-limiting enzyme in the catabolic pathway of polyamine metabolism. It catalyzes the N(1)-acetylation of spermidine and spermine and, by the successive activity of polyamine oxidase, spermine can be converted to spermidine and spermidine to putrescine.
Protein Classification	Transferase
Structure Weight	42238.60 Da
Polymer	1
Molecule	Diamine acetyltransferase 1
Chain Length	179 amino acids
PDB ID	2G3T
MMDB ID	38382
Method	X-Ray Diffraction

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Resolution	1.8Å
Reference	Zhu, Y.Q., Zhu, D.Y., Yin, L., Zhang, Y., Vonrhein, C., Wang, D.C. (2006) Crystal structure of human spermidine/spermine N1-acetyltransferase (hSSAT): the first structure of a new sequence family of transferase homologous superfamily Proteins 63: 1127-1131

GENE INFORMATION

Gene Name	SAT1
Synonyms	DC21; EC 2.3.1.57; KFSD; SAT; SSAT; SSAT-1;OTTHUMP00000023061; diamine N-acetyltransferase 1; diamine acetyltransferase 1; spermidine/spermine N1-acetyltransferase alpha; spermidine/spermine N1-acetyltransferase 1; Polyamine N-acetyltransferase 1; Putrescine acetyltransferase
UniProt ID	P21673
Gene ID	6303
Chromosome Location	Xp22.1
Function	acyltransferase activity; diamine N-acetyltransferase activity; transferase activity

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