



**PRODUCT MANUAL
OF
SAT1 PROTEIN CRYSTAL**

SAT1 Protein Crystal
Diamine Acetyltransferase 1

Cat. No.	CBCRY21	
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.	
Molecular description	Protein Classification	Transferase
	Structure Weight	42238.60 Da
	Polymer	1
	Molecule	Diamine acetyltransferase 1
	Chain Length	179 amino acids
Crystal Description	PDB ID	2G3T
	MMDB ID	38382
	Source	E.coli
	Method	X-Ray Diffraction
	Resolution	1.8Å
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
	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

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY



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