

Product datasheet for SA6049X

SETD7 / SET9 Human Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins	
Description:	SETD7 / SET9 human recombinant protein, 0.5 mg	
Species:	Human	
Expression Host:	E. coli	
Expression cDNA Clone or AA Sequence:	MDSDDEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYYVDDALQG QGVYTYEDGG VLQGTYVDGE LNGPAQEYDT DGRLIFKGQY KDNIRHGVCW IYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSRDW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCIYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF QATQQK	
Predicted MW:	40.7 kDa	
Concentration:	lot specific	
Purity:	>95% by SDS-PAGE	
Buffer:	Presentation State: Purified State: Liquid Buffer System: 50 mM Tris-HCl buffer (pH 7.5) 0.2M NaCl, 5 mM DTT, 20% glycerol	
Preparation:	Liquid	
Protein Description:	Recombinant human SET7/9, was cloned into an E. coli expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques.	
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.	
Stability:	Shelf life: one year from despatch.	
RefSeq:	<u>NP 001293128</u>	
Locus ID:	80854	
UniProt ID:	Q8WTS6, D6RJA0	
Cytogenetics:	4q31.1	
Synonyms:	KMT7; SET7; SET7/9; SET9	



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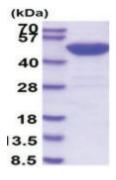
SETD7 / SET9 Human Protein – SA6049X

Summary:Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4'
methylation represents a specific tag for epigenetic transcriptional activation. Plays a central
role in the transcriptional activation of genes such as collagenase or insulin. Recruited by
IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also
methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and
possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins.
Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA
polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing
p53/TP53-mediated transcriptional activation.[UniProtKB/Swiss-Prot Function]

Protein Families:	Druggable Genome

Protein Pathways:

Product images:



Lysine degradation

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