SETD7
Human Recombinant Set7/9 Histone Methyltransferase

Catalog No.	CSI12697A	**Quantity:**	20 µg
	CSI12697B		100 µg
	CSI12697C		1.0 mg

Alternate Names: Histone-lysine N-methyltransferase, H3 lysine-4 specific SET7, EC 2.1.1.43, Histone H3-K4 methyltransferase, H3-K4-HMTase, SET domain-containing protein 7, Set9, SET7/9, SETD7.

Description: Set 7/9 is a histone methyltransferase (HMTase) that transfers methyl groups to Lys4 of histone H3, in complex with S-adenosyl-L-methionine (AdoMet). The methylation of lysine residues of histones plays a critical role in the regulation of chromatin structure and gene expression.
Acetylation, phosphorylation and methylation of the amino-terminal tails of histone are thought to be involved in the regulation of chromatin structure and function. The enzymes identified in the methylation of specific lysine residue on histones belong to the SET family with just one exception. Set7/9, unlike most other SET proteins, is exclusively a mono-methylase.
SETD7 Human Recombinant produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 366 amino acids.

Physical Appearance: Sterile Filtered clear soultion.

Gene ID: 80854

Source: *E. coli*

Molecular Mass: 40.7 kDa

Formulation: The protein containing 50 mM Tris-HCl buffer (pH 7.5) + 0.2 M NaCl + 5 mM DTT and 20% glycerol.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Purification: The SETD7 purified by proprietary chromatographic techniques.

Amino Acid 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

Storage & Stability: Store at 4°C if entire vial will be used within 1-2 weeks.
Store, frozen at -20°C for longer periods of time.
Please prevent freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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