

Recombinant Human Set7/9 Histone Methyltransferase

Cat. No. HMTase-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMTase produced in E.Coli is a single, non-glycosylated polypeptide chain containing 366 amino acids & having a molecular mass of 40.7 kDa. The HMTase purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
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.
Amino Acid Sequence	MDSDDENVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYYVDDALQG QGVYTYEDGG VLQGTYYVDGE LNGPAQEYDT DGRILFKGQY KDNIRHGV CW IYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSDRW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCIYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP

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Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein (1 mg/ml) containing 50mM Tris-HCl buffer (pH7.5), 0.2 M NaCl, 5 mM DTT and 20% glycerol.
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.

GENE INFORMATION

Synonyms

SETD7; SET7; FLJ21193; KIAA1717; KMT7; SET7/9; SET9; EC 2.1.1.43; Set9; H3-K4-HMTase; H3-K4-HMTase SETD7; H3 lysine-4 specific SET7; Histone-lysine N-methyltransferase; Histone H3-K4 methyltransferase; histone H3-lysine 4-specific methyltransferase; SET domain-containing protein 7; Histone H3-K4 methyltransferase SETD7; Lysine N-methyltransferase 7; SET domain containing (lysine methyltransferase) 7; histone H3-K4 methyltransferase; histone-lysine N-methyltransferase; protein methylase III; protein methylase 3; protein (lysine) methyltransferase; protein methyltransferase II; protein-lysine N-methyltransferase; histone H1-specific S-adenosylmethionine:protein-lysine N-methyltransferase; S-adenosyl-L-methionine:histone-L-lysine N6-methyltransferase.

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