

Product information

Set7/9, 1-366 aa

Human, Recombinant, *E.coli*

Cat. No. IBSET3001

Full name: SET domain-containing protein 7

NCBI Accession No.: NP_085151

Synonyms: SETD7, KMT7, SET7, SET9

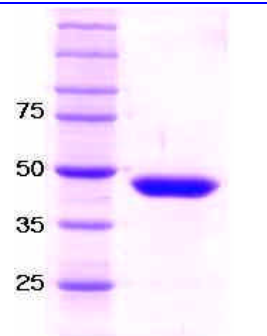
Description: Set 7/9 is a histone methyltransferase(HMTase) that transfers methyl groups to Lys4 of histone H3, in complex with S-adenosyl-L-methionine(AdoMet). The methylation of lysine residues of histones plays a critical role in the regulation of chromatin structure and gene expression. Acetylation, 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.

Form: Liquid. In 50 mM Tris-HCl buffer (pH 7.5) containing 5 mM DTT, 200 mM NaCl, 20% glycerol

Molecular Weight: 40.7 kDa (366 aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



10% SDS-PAGE (3ug)

Sequences of amino acids:

MDSDDEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYYVDDALQG QGVYTYEDGG VLQGTYYDGE
 LNGPAQEYDT DGRLIFKGQY KDNIRHGVCW IYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP
 HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSRDW ALNGNTLSLD
 EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCIYDMFVH PRFGPIKCI R TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF
 QATQQK

General references:

Xiao B., *et al.* (2003) *Nature*. 421(6923):652-6.

Kwon T., *et al.* (2003) *EMBO J.* 22, 292-303.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.