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**SET7/9 Histone methyltransferase Human, Recombinant, E.coli**

**Cat.NO.: TP03910**

3th Edition

**Synonyms:**SET domain-containing protein 7, 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

**Sequences:**

MDSDDMEMVEEAVEGHLDDDDGLPHGFCTVTYSSTDRFEGNFVHGEKNGRGRKFFFFFDGSTLEGYYVDDALQGQGV  
YTYEDGGVLQGTQTYVDGELNGPAQEYDTDGRLIFKGQYKDNIRHGVCWIYYPDGGSLVGEVNEDGEMTGEKIAYVY  
PDERTALYGKFIGEMIEGKLATLMSTEEGRPHFELMPGNSVYHFDKSTSSCISTNALLPDPYESERVYVAESLISSA  
GEGLFKVAVGPNTVMSFYNGVRITHQEVDSDRWALNGNTLSLDEETVIDVPEPYNHVSKEYCASLGHKANHSFTP  
NCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSPPGKSGPEAPEWYQVELKAFQATQQK

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.