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SETD7 Human

Catalog #:ENPS-321

For research use only.

Description:SETD7 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 366 amino acids & having a molecular mass of 40.7 kDa. The SETD7 purified by proprietary chromatographic techniques.

Synonyms: 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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear soultion.

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 FS

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

Formulation:
The protein containing 50mM Tris-HCl buffer (pH7.5), 0.2M NaCl, 5mM 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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 thoµght 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.

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