

Recombinant human KMT5A protein

Catalog Number: ATGP3812

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

195-352aa

UniProt No.

Q9NQR1

NCBI Accession No.

NP_065115

Alternative Names

N-lysine methyltransferase KMT5A isoform 1, KMT5A, PR-Set7, SET07, SET8, SETD8

PRODUCT SPECIFICATION

Molecular Weight

18.9 kDa (165aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 0.2M NaCl, 1mM EDTA, 50% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

KMT5A, also known as N-lysine methyltransferase KMT5A isoform 1, is an enzyme which catalyzes mono-methylation of histone H4 at lysine 20 (H4K20me1). It is implicated in cell-cycle-dependent transcriptional silencing and mitotic regulation in metazoans. It acts as a barrier to prevent cellular senescence through chromatin-mediated regulation of senescence-associated metabolic remodeling. It mediates monomethylation of

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p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes. The loss of KMT5A concurrently stimulate nucleolar function and retinoblastoma protein-mediated mitochondrial metabolism. Recombinant human KMT5A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MKAELQSEER KRIDELIESG KEEGMKIDLI DGKGRGVIAT KQFSRGDFVW EYHGDLEIT DAKKREALYA QDPSTGCYMY YFQYLSKTYC VDATRETNRL GRLINHSKCG NCQTKLHDID GVPHLILIAS RDIAAGEELL YDYGDRSKAS IEAHPWLKHH HHHHH

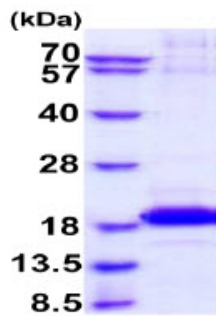
General References

Nishioka K., et al. (2002) Mol Cell. 9:1201-1213.

Tanaka H., et al. (2017) Cell Rep. 18:2148-2161.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.