

Recombinant Human KMT2B, GST-tagged

Cat. No. KMT2B-56H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human KMT2B protein corresponding to amino acids 2551 - 2715 of the MLL4 protein (accession number NP_055542.1) was expressed in E. coli, with an N-terminal GST tag.

Species Human

Source E.coli

ProteinLength 2551-2715 a.a.

Description

Myeloid/lymphoid or mixed-lineage leukemia 4 (MLL4) is a Trithorax-group protein that function collectively to promote gene expression. MLL4 is a histone methyltransferase that methylates the Lysine 4 position of histone H3. In particular, the SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. The SET domain is responsible for its histone methyltransferase activity which mediates chromatin modifications associated with epigenetic transcriptional activation. H3K4 methylation represents a specific epigenetic tag for transcriptional activation. MLL4 plays a central role in β -globin locus transcription regulation by being recruited by Nfe2. MLL4 is also required during the transcriptionally active period of oocyte growth for the establishment and/or maintenance of bulk H3K4 trimethylation (H3K4me3), global transcriptional silencing that precedes resumption of meiosis, oocyte survival and normal zygotic genome activation. MLL4 may also be involved in human cancer as its expression has been shown to be upregulated in solid tumor cell lines.

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Form	20 mM Tris-HCl pH 7.4, 150 mM NaCl and 20% glycerol.
Molecular Mass	45.2 kDa
Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.4 mg/ml

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