

Active Recombinant Human MLL2 protein, GST-tagged

Cat. No. MLL2-190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MLL2(5317-end) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	5317-end
Description	Histone-lysine N-methyltransferase 2D, also known as mixed-lineage leukemia 2 (MLL2), methylates 'Lys-4' of histone H3 (H3K4me). Acts as a coactivator for estrogen receptor by being recruited by ESR1, thereby activating transcription. MLL2/KMT2D is among the most frequently mutated genes in a variety of pediatric tumors.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	2.5 nmol/min/mg
Molecular Mass	51 kDa
Purity	>80%
Applications	Methyltransferase Assay

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Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	MLL2 myeloid/lymphoid or mixed-lineage leukemia 2 [Homo sapiens]
Official Symbol	MLL2
Synonyms	MLL2; myeloid/lymphoid or mixed-lineage leukemia 2; TNRC21, trinucleotide repeat containing 21; histone-lysine N-methyltransferase MLL2; ALR; CAGL114; KMT2D; MLL4; ALL1-related protein; Kabuki make-up syndrome; lysine N-methyltransferase 2B; lysine N-meth
Gene ID	8085
mRNA Refseq	NM_003482
Protein Refseq	NP_003473
MIM	602113
UniProt ID	O14686
Chromosome Location	12q13.12

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Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; protein binding; transcription regulatory region DNA binding; transferase activity; zinc ion binding;
	