

Datasheet for ABIN6579161

**MLL/KMT2A Protein (AA 3735-3973) (GST tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	MLL/KMT2A (MLL)
Protein Characteristics:	AA 3735-3973
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MLL/KMT2A protein is labelled with GST tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

## Product Details

Characteristics:	The peptide corresponding to amino acids 3735 - 3973 of the MLL / HRX protein (accession number NP_001184033.1) was expressed in E. coli. The peptide contains the SET domain of MLL that is responsible for methyltransferase activity. Recombinant MLL / HRX - SET contains an N-terminal GST tag with a molecular weight of 53.7 kDa.
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## Target Details

Target:	MLL/KMT2A (MLL)
Alternative Name:	MLL / HRX ( <a href="#">MLL Products</a> )
Background:	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila), or MLL, also known as HRX, is a Trithorax-group protein that function collectively to promote gene expression. MLL is a transcriptional coactivator that plays an essential role in regulating gene

## Target Details

expression during early development and hematopoiesis. The protein contains multiple conserved functional domains. 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 H3 lysine 4 (H3K4) methyltransferase activity which mediates chromatin modifications associated with epigenetic transcriptional activation. This protein is processed by the enzyme Taspase 1 into two fragments, MLL-C and MLL-N. These fragments reassociate and further assemble into different multiprotein complexes that regulate the transcription of specific target genes, including many of the HOX genes. Multiple chromosomal translocations involving this gene are the cause of certain acute lymphoid leukemias and acute myeloid leukemias. Alternate splicing results in multiple transcript variants.

Molecular Weight: 53.7 kDa

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: Recombinant MLL / HRX - SET is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

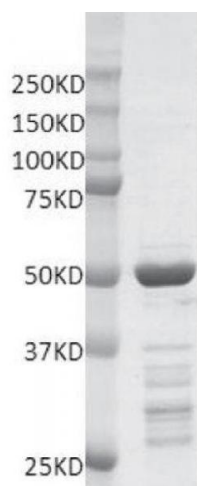
Restrictions: For Research Use only

## Handling

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -80 °C

Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.



#### Western Blotting

**Image 1.** Recombinant MLL / HRX - SET protein gel. MLL / HRX - SET protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.