

MLL1 recombinant protein

MLL1 (KMT2A), Active

CATALOG #
AAA73021

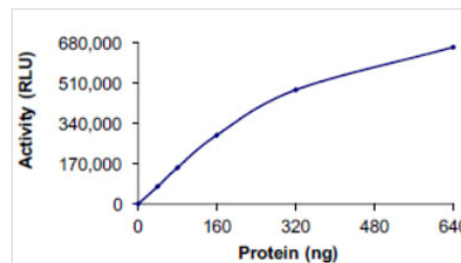
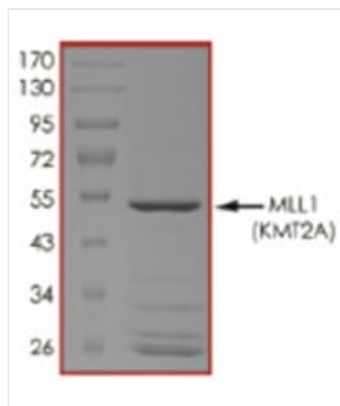
PRODUCT SYNONYMS

MLL1; MLL1 (KMT2A); Active; MLL1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 ug/ul (varies by lot)
Sequence Positions	3738-end
Sequence Length	16599
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. 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. Stable for 1 year at -70°C from date of receipt.

IMAGES



Application Data

The specific activity of MLL1 (KMT2A) was determined to be 600pmol/min/mg as per activity assay protocol.

Application Data

The purity of MLL1 (KMT2A) was determined to be >90% by densitometry, approx. MW 52kDa.

ADDITIONAL INFORMATION

Related Product Information for MLL1 recombinant protein

Description: Recombinant human MLL1 (3738-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The MLL1 (KMT2A) protein accession number is NM_005933.

Scientific Background: Histone-lysine N-methyltransferase 2A also known as mixed-lineage leukemia 1 (MLL1) methylates histone H3 on lysine 4 (H3K4) to promote genome accessibility and transcription. Dysregulation or mutation of the KMT2 family have been found in human cancer, exemplified by the initial discovery of KMT2A rearrangements as causes of MLL.

Product Categories/Family for MLL1 recombinant protein	Enzymes; Active Methyltransferases
References	1. Rao RC, et al: Hijacked in cancer: the KMT2 (MLL) family of methyltransferases. Nat Rev Cancer. 15 (6): 334-46. 2015. 2. http://www.uniprot.org/uniprot/Q

NCBI AND UNIPROT INFORMATION

NCBI GI #	308199414
NCBI GeneID	4297
NCBI Accession #	NM_005933.3
NCBI GenBank Nucleotide #	NM_005933
UniProt Accession #	Q03164 ; Q13743 ; Q13744 ; Q14845 ; Q16364 ; Q59FF2 ; Q6UBD1 ; Q9HBJ3 ; Q9UD94 ; Q9UMA3 ; E9PQG7
NCBI Official Full Name	Homo sapiens lysine methyltransferase 2A (KMT2A), transcript variant 2, mRNA
NCBI Official Synonym Full Names	lysine methyltransferase 2A
NCBI Official Symbol	KMT2A
NCBI Official Synonym Symbols	HRX; MLL; MLL1; TRX1; ALL-1; CXXC7; HTRX1; MLL1A; WDSTS
NCBI Protein Information	histone-lysine N-methyltransferase 2A
UniProt Protein Name	Histone-lysine N-methyltransferase 2A
UniProt Gene Name	KMT2A
UniProt Synonym Gene Names	ALL1; CXXC7; HRX; HTRX; MLL; MLL1; TRX1; Lysine N-methyltransferase 2A; p320; p180

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/kmt2a-recombinant-protein/73021>