

DOT1L recombinant protein

Recombinant DOT1L (1-416) protein

CATALOG # AAA59704	HOST E Coli
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PRODUCT SYNONYMS

DOT1L; Recombinant DOT1L (1-416) protein; DOT1; KMT4; DOT1L recombinant protein

PRODUCT SPECIFICATIONS

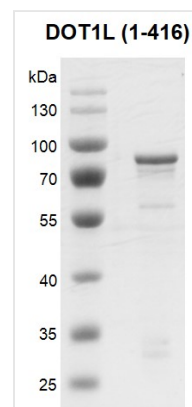
Host	E Coli
Form/Format	Recombinant DOT1L (1-416) protein is supplied in 25mM Tris pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant DOT1L (1-416), active protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 2ug recombinant nucleosomes were incubated with DOT1L in reaction buffer including 50mM Tris-HCl, pH 8.6, 0.02% Triton X-100, 2mM MgCl ₂ , 1mM TCEP, 50uM SAM for 3 hours at room temperature. Western blot was used for activity detection. Western Blot was used to detect the generation of reaction products (Anti-H3K79me1, 1:000 dilution). DOT1L only was used as negative control.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



WB (Western Blot)

Recombinant DOT1L (1-416) protein activity. 2 ug recombinant nucleosomes were incubated with DOT1L protein for 3 hrs at RT and reaction products detected by Western Blot (Anti-H3K79me1) with DOT1L protein alone as a negative control. The activity of DOT1L with nucleosomes as substrates is greater than with histone octamer substrates.



SDS-PAGE

Recombinant DOT1L (1-416) protein gel. Recombinant DOT1L (1-416), protein was run on a 10% SDS-PAGE gel and stained with Coomassie Blue. MW: 72 kDa Purity: > 80%

ADDITIONAL INFORMATION

Related Product Information for DOT1L recombinant protein	Short Description: Recombinant DOT1L (1-416) protein that includes amino acids 1-416 that contains the SET domain sequence of the human DOT1L protein (accession number NP_115871.1) was expressed in E Coli and contains an N-terminal GST-Tag with an observed molecular weight of 72 kDa. Background: DOT1L (Disruptor of Telomeric silencing 1-like, also known as KMT4) is the mammalian homologue of the yeast Dot1 protein and the Drosophila Grappa protein. DOT1L is the enzyme responsible for lysine 79 methylation of histone H3. DOT1L can promote an oncogenic pattern of gene expression through binding with several MLL fusion partners found in acute leukemia, thus leading to aberrant methylation of lysine 79 at MLL target genes. In contrast to most other histone lysine methyltransferases, DOT1L does not contain a SET domain. Biochemical studies suggest that recombinant DOT1L is active on recombinant nucleosomes.
Product Categories/Family for DOT1L recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	22094135
NCBI GeneID	84444
NCBI Accession #	NP_115871.1
NCBI GenBank Nucleotide #	NM_032482.2
UniProt Accession #	Q8TEK3; O60379; Q96JL1
Molecular Weight	184853 MW
NCBI Official Full Name	histone-lysine N-methyltransferase, H3 lysine-79 specific
NCBI Official Synonym Full Names	DOT1 like histone lysine methyltransferase
NCBI Official Symbol	DOT1L
NCBI Official Synonym Symbols	DOT1; KMT4
NCBI Protein Information	histone-lysine N-methyltransferase, H3 lysine-79 specific
UniProt Protein Name	Histone-lysine N-methyltransferase, H3 lysine-79 specific
UniProt Gene Name	DOT1L
UniProt Synonym Gene Names	KIAA1814; KMT4; H3-K79-HMTase

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/dot1l-recombinant-protein-e-coli/59704>