Active Recombinant Human DOT1L protein, GST-tagged

Cat. No. DOT1L-180H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DOT1L(1-435 aa) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-435 aa
Description	DOT1-like protein (DOT1L) specifically methylates lysine-79 of histone H3 in the globular domain. DOT1L lacks a SET-domain, which is commonly considered to mediate lysine methylation of histones. DOT1 homologs exist in a variety of eukaryotic organisms. The activity of this methyltransferase is involved in cell cycle regulation and leukemogenesis.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	14 nmol/min/mg
Molecular Mass	78 kDa
Purity	>90%
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	DOT1L DOT1-like, histone H3 methyltransferase (S. cerevisiae) [Homo sapiens]
Official Symbol	DOT1L
Synonyms	DOT1L; DOT1-like, histone H3 methyltransferase (S. cerevisiae); histone-lysine N-methyltransferase, H3 lysine-79 specific; DOT1; histone methyltransferase DOT1L; KIAA1814; KMT4; H3-K79-HMTase; DOT1-like protein; lysine N-methyltransferase 4; histone H3-K7
Gene ID	84444
mRNA Refseq	NM_032482
Protein Refseq	NP_115871
MIM	607375
UniProt ID	Q8TEK3
Chromosome Location	19p13.3

Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity; protein binding; transcription factor binding; transferase activity;

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