

Recombinant Human DOT1L, GST-tagged

Cat. No. DOT1L-658H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DOT1 protein, catalytic domain (DOT1L, KMT4, accession Q8TEK3, amino acids 1-472), containing an N-terminal GST tag, expressed in E. coli
Species	Human
Source	E.coli
ProteinLength	1-472 a.a.
Description	The protein encoded by this gene is a histone methyltransferase that methylates lysine-79 of histone H3. It is inactive against free core histones, but shows significant histone methyltransferase activity against nucleosomes.
Form	Recombinant GST-DOT1L (1 g/l) 100 mM Tris pH 8.0, 5 mM glutathione and 25% glycerol.
Molecular Mass	85 kDa
Purity	70% as measured by gel densitometry.
Applications	Recombinant DOT1L Catalytic Domain, human is useful for histone H3 methylation experiments, enzyme kinetics and inhibitor screening. Use of 3-5 g DOT1L per reaction with HeLa or recombinant nucleosomes as a substrate is recommended.
Storage	Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid

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multiple freeze/thaws.

GENE INFORMATION

Gene Name	DOT1L DOT1-like histone H3K79 methyltransferase [Homo sapiens (human)]
Official Symbol	DOT1L
Synonyms	DOT1L; DOT1; KMT4; DOT1-like histone H3K79 methyltransferase; histone-lysine N-methyltransferase, H3 lysine-79 specific; H3-K79-HMTase; DOT1-like protein; lysine N-methyltransferase 4; histone methyltransferase DOT1L; histone H3-K79 methyltransferase; DOT1-like, histone H3 methyltransferase; NP_115871.1; EC 2.1.1.43
Gene ID	84444
mRNA Refseq	NM_032482
Protein Refseq	NP_115871
MIM	607375
UniProt ID	Q8TEK3
Chromosome Location	19p13.3
Pathway	Lysine degradation; Transcriptional misregulation in cancer
Function	DNA binding; histone-lysine N-methyltransferase activity; protein binding

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