

## Recombinant Human DOT1L, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human DOT1 protein, catalytic domain (DOT1L, KMT4, accession Q8TEK3, amino acids 1-472), containing an N-terminal GST tag, expressed in E. coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-472 a.a.
<b>Description</b>	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.
<b>Form</b>	Recombinant GST-DOT1L (1 g/l) 100 mM Tris pH 8.0, 5 mM glutathione and 25% glycerol.
<b>Molecular Mass</b>	85 kDa
<b>Purity</b>	70% as measured by gel densitometry.
<b>Applications</b>	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.
<b>Storage</b>	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

<b>Gene Name</b>	DOT1L DOT1-like histone H3K79 methyltransferase [ Homo sapiens (human) ]
<b>Official Symbol</b>	DOT1L
<b>Synonyms</b>	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
<b>Gene ID</b>	84444
<b>mRNA Refseq</b>	NM_032482
<b>Protein Refseq</b>	NP_115871
<b>MIM</b>	607375
<b>UniProt ID</b>	Q8TEK3
<b>Chromosome Location</b>	19p13.3
<b>Pathway</b>	Lysine degradation; Transcriptional misregulation in cancer
<b>Function</b>	DNA binding; histone-lysine N-methyltransferase activity; protein binding

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