

## Active Recombinant Human EHMT1 protein, GST-tagged

Cat. No. EHMT1-181H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EHMT1(895-end) fused with GST tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	895-end a.a.
<b>Description</b>	Euchromatic histone-lysine N-methyltransferase 1 (EHMT1) is in charge of the mono- and demethylation of lysine-9 of histone H3. EHMT1 is found in a multimeric protein complex containing chromatin modifiers, which contributes to silencing of MYC- and E2F-responsive genes during G0 phase of cell cycle. EHMT1 plays a role in epithelial-to-mesenchymal transition and tumor invasion by repressing expression of tumour suppressor genes. Additionally, EHMT1 also methylates non-histone proteins such as lysine-373 of p53.
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	380 nmol/min/mg
<b>Molecular Mass</b>	74 kDa
<b>Purity</b>	>95%

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<b>Applications</b>	Methyltransferase Assay
<b>Stability</b>	1 year at -70 centigrade from the date of shipment
<b>Storage</b>	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.
<b>Concentration</b>	0.1 µg/µl

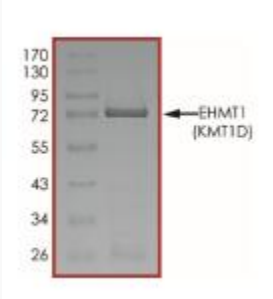
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">EHMT1</a> euchromatic histone-lysine N-methyltransferase 1 [ Homo sapiens ]
<b>Official Symbol</b>	<a href="#">EHMT1</a>
<b>Synonyms</b>	EHMT1; euchromatic histone-lysine N-methyltransferase 1; euchromatic histone methyltransferase 1; histone-lysine N-methyltransferase EHMT1; bA188C12.1; Eu HMTase1; FLJ12879; KIAA1876; KMT1D; H3-K9-HMTase 5; G9a like protein; G9a-like protein 1; lysine N-m
<b>Gene ID</b>	<a href="#">79813</a>
<b>mRNA Refseq</b>	<a href="#">NM_024757</a>
<b>Protein Refseq</b>	<a href="#">NP_079033</a>
<b>MIM</b>	<a href="#">607001</a>
<b>UniProt ID</b>	<a href="#">Q9H9B1</a>

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<b>Chromosome Location</b>	9
<b>Pathway</b>	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
<b>Function</b>	histone methyltransferase activity (H3-K27 specific); histone methyltransferase activity (H3-K9 specific); histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transferase activity; zinc ion binding;
	

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