Active Recombinant Human EHMT1 protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human EHMT1(895-end) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	895-end a.a.
Description	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.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	380 nmol/min/mg
Molecular Mass	74 kDa
Purity	>95%

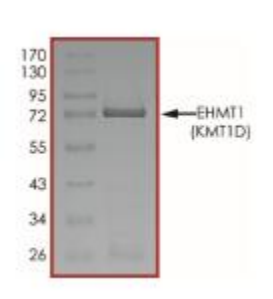
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Applications	Methyltransferase Assay
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	EHMT1 euchromatic histone-lysine N-methyltransferase 1 [Homo sapiens]
Official Symbol	EHMT1
Synonyms	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
Gene ID	79813
mRNA Refseq	NM_024757
Protein Refseq	NP_079033
MIM	607001
UniProt ID	Q9H9B1

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Chromosome Location	9
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	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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