Recombinant Human EHMT1, His-tagged

Cat. No. EHMT1-27743TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 460-716 of Human KMT1D / GLP / Eu HMTase1 with N terminal His tag; 257 amino acids, 38kDa.
Species	Human
Source	E.coli
ProteinLength	460-716 a.a.
Description	The protein encoded by this gene is a histone methyltransferase that is part of the E2F6 complex, which represses transcription. The encoded protein methylates the Lys-9 position of histone H3, which tags it for transcriptional repression. This protein may be involved in the silencing of MYC- and E2F-responsive genes and therefore could play a role in the G0/G1 cell cycle transition. Defects in this gene are a cause of chromosome 9q subtelomeric deletion syndrome (9q-syndrome). Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 103 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	SQNCVTSPMNIDRNITHLQYCVCIDDCSSSNCMCGQLSMR CWYDKDGRLLPEFNM AEPPLIFECNHACSCWRNCRNRV VQNGLRARLQLYRTRDMGWGVRSLQDIPPGTF VCEYVGELISDSEADVREEDSYLFDLDNKDGEVYCIDARFYGNVSR FINHHCEPNLV PVRVFMAHQDLRFPRIAFFSTRLIEAG EQLGFDYGERFWDIKGKLFSCRCGSPKCR HSSAALAQRQA SAAQEAQEDGLPDTSSAAAADPL

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;
Gene ID	79813
mRNA Refseq	NM_024757
Protein Refseq	NP_079033
MIM	607001
Uniprot ID	Q9H9B1
Chromosome Location	9
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;

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Function	histone methyltransferase activity (H3-K27 specific); histone methyltransferase activity (H3-K9 specific); histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity;

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