

EHMT1 recombinant protein

Recombinant EHMT1 (894-1298) protein

CATALOG #
AAA59731

HOST
E Coli

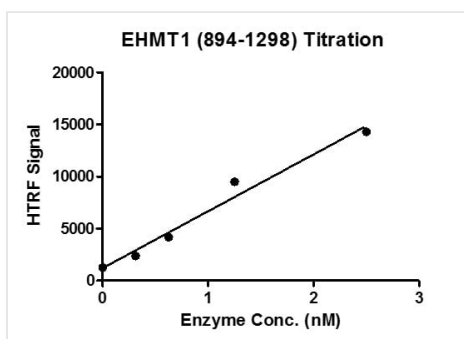
PRODUCT SYNONYMS

EHMT1; Recombinant EHMT1 (894-1298) protein; Euchromatic Histone Lysine Methyltransferase 1; Histone H3-K9 Methyltransferase; G9a-Like Protein; H3-K9-HMTase 5; KMT1D; GLP1; EuHMT1; EuHMTase1; G9a like protein; EHMT1 recombinant protein

PRODUCT SPECIFICATIONS

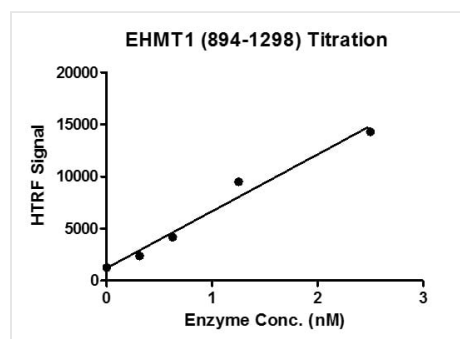
Host	E Coli
Purity/Purification	The purity ofThe protein is > 85% by SDS-PAGE.
Form/Format	Recombinant EHMT1 (894-1298) protein is supplied at a concentration of 0.8ug/ul in 25mM Tris-HCl pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant EHMT1 protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 3uM H3 (1-21) peptide was incubated with different concentrations of EHMT1 (894-1298) protein in 10ul reaction system containing 50mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2mM MgCl2, 1mM TCEP and 50uM SAM for 3 hours, then 10ul H3K9me2 antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



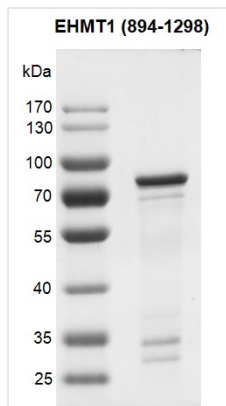
Application Data

HTRF assay for EHMT1 (894-1298) activity 3 uM histone peptide H3 (1-21) was incubated with EHMT1 (894-1298) in reaction buffer for 3 hours at room temperature. H3K9me2 antibody was used to detect reaction product.



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SDS-PAGE

Recombinant EHMT1 (894-1298) SDS-PAGE gel. Recombinant EHMT1 was run on a 10% SDS-PAGE gel and stained with Coomassie Blue. MW: 79.1 kDa Purity: > 85%

ADDITIONAL INFORMATION

Related Product Information for EHMT1 recombinant protein	Short Description: Recombinant EHMT1 (894-1298) protein includes amino acids 894-1298 of human EHMT1 protein (accession number NP_079033.4); it was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 79.1 kDa. The purity of the protein is > 85% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: EHMT1(Euchromatic Histone Methyltransferase 1, EuHMT1, EuHMTase1, G9a like protein, GLP1) is a SET domain-containing histone methyltransferase specific for lysine 9 of histone H3. It is possible that this protein is involved in the silencing of Myc and E2F-responsive genes and thus could play a role in regulating cell cycle transitions from G0 to G1.
Product Categories/Family for EHMT1 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	224465232
NCBI GeneID	79813
NCBI Accession #	NP_079033.4
NCBI GenBank Nucleotide #	NM_024757
Molecular Weight	86,704 Da
NCBI Official Full Name	Homo sapiens euchromatic histone-lysine N-methyltransferase 1 (EHMT1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	euchromatic histone-lysine N-methyltransferase 1
NCBI Official Symbol	EHMT1
NCBI Official Synonym Symbols	GLP; GLP1; KMT1D; FP13812; EUHMTASE1; Eu-HMTase1; bA188C12.1
NCBI Protein Information	histone-lysine N-methyltransferase EHMT1; G9a-like protein 1; H3-K9-HMTase 5; histone H3-K9 methyltransferase 5; histone-lysine N-methyltransferase, H3 lysine-9 specific 5; lysine N-methyltransferase 1D

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.