

Histone-lysine N-methyltransferase SETDB1 (SETDB1), partial Recombinant Protein | SETDB1 recombinant protein

Recombinant Human Histone-lysine N-methyltransferase SETDB1 (SETDB1), partial

CATALOG # AAA117382	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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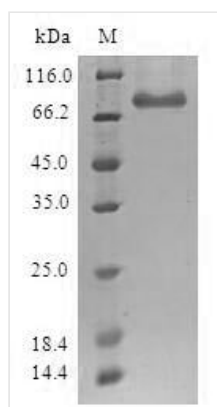
PRODUCT SYNONYMS

Histone-lysine N-methyltransferase SETDB1 (SETDB1); partial; Recombinant Human Histone-lysine N-methyltransferase SETDB1 (SETDB1); Histone-lysine N-methyltransferase SETDB1; EC=2.1.1.43; ERG-associated protein with SET domain; ESET; Histone H3-K9 methyltransferase 4; H3-K9-HMTase 4; Lysine N-methyltransferase 1E; SET domain bifurcated 1; SETDB1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-397aa; Full Length of Isoform 2
Sequence	MSSLPGCIGL DAATATVESE EIAELQQAVV EELGISMEEL RHFIDEEEK MDCVQQRKKQ LAELETWVIQ KESEVAHVDQ LFDDASRAVT NCESLVKDFY SKLGLQYRDS SSEDESSRPT EIIEIPDEDD DVLSIDSGDA GSRTPKDQKL REAMAALRKS AQDVQKFMDA VNKKSSSQDL HKGTL SQMSG ELSKDGD LIV SMRILGKKRT K TWHKGT LIA I QTVGPGKKY KVKFDNKGKS LLSGNHIAYD YHPPADKLYV GSRVVAKYKD GNQVWLYAGI VAETPNVKNK LRFLIFFDDG YASYVTQSEL YPICRPLKKT WEDIEDISCR DFIEEYVTAY PNRPMVLLKS GQLIKTEWEG TWWKSRVEEV DGSLVRILFL VLFFSTILEA EVGGGGT
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SETDB1 recombinant protein	Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. H3 'Lys-9' trimethylation is coordinated with DNA methylation. Probably forms a complex with MBD1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Its activity is dependent on MBD1 and is heritably maintained through DNA replication by being recruited by CAF-1. SETDB1 is targeted to histone H3 by TRIM28/TIF1B, a factor recruited by KRAB zinc-finger proteins. Probably forms a corepressor complex required for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells. Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs). Associates at promoter regions of tumor suppressor genes (TSGs) leading to their gene silencing . The SETDB1-TRIM28-ZNF274 complex may play a role in recruiting ATRX to the 3'-exons of zinc-finger coding genes with atypical chromatin signatures to establish or maintain/protect H3K9me3 at these transcriptionally active regions
Product Categories/Family for SETDB1 recombinant protein	Epigenetics and Nuclear Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	224177467
NCBI GeneID	9869
NCBI Accession #	NP_001138887.1
NCBI GenBank Nucleotide #	NM_001145415.1
UniProt Accession #	Q15047; Q5SZD8; Q5SZD9; Q5SZE0; Q5SZE7; Q96GM9; A6NEW2
Molecular Weight	71.7 kDa
NCBI Official Full Name	histone-lysine N-methyltransferase SETDB1 isoform 1
NCBI Official Synonym Full Names	SET domain, bifurcated 1
NCBI Official Symbol	SETDB1
NCBI Official Synonym Symbols	ESET; KG1T; KMT1E; TDRD21; H3-K9-HMTase4
NCBI Protein Information	histone-lysine N-methyltransferase SETDB1; H3-K9-HMTase 4; tudor domain containing 21; lysine N-methyltransferase 1E; histone H3-K9 methyltransferase 4; ERG-associated protein with SET domain; ERG-associated protein with a SET domain, ESET; histone-lysine N-methyltransferase, H3lysine-9 specific 4
UniProt Protein Name	Histone-lysine N-methyltransferase SETDB1
UniProt Gene Name	SETDB1
UniProt Synonym Gene Names	KIAA0067; KMT1E; ESET; H3-K9-HMTase 4
UniProt Entry Name	SETB1_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/setdb1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117382>