

Active Recombinant Full Length Human SETDB1 Protein, C-Flag-tagged

Cat. No. SETDB1-675HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SETDB1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-1291 aa
Description	This gene encodes a histone methyltransferase which regulates histone methylation, gene silencing, and transcriptional repression. This gene has been identified as a target for treatment in Huntington Disease, given that gene silencing and transcription dysfunction likely play a role in the disease pathogenesis. Alternatively spliced transcript variants of this gene have been described.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme substrate
Molecular Mass	143 kDa
AA Sequence	MSSLPGCIGLDAATATVESEEIAELQQAVVEELGISMEELRHFIDEEEKMDCVQQRK KQLAELETWVIQ KESEVAHVVDQLFDDASRAVTNCESLVKDFYSKLGLQYRDSSSED ESSRPTEIIEIPDEDDDLVSIDSGDA GSRTPKDQKLREAMAALRKSAQDVQKFMDAV

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 45-1 Ramsey Road, Shirley, NY 11967, USA

NKKSSSQDLHKGTLSQMSGELSKDGLIVSMRILGKKRT KTWHKGTLIAIQTVGPGK
 KYKVKFDNKGKSLLSGNHAIYDYHPPADKLYVGSRVVAKYKDGNQVWLYAGI VAET
 PNVKNKLRLFIFFDDGYASYVTQSELYPICRPLKKTWEDIEDISCRDFIEEYVTAYPNR
 PMVLLKS GQLIKTEWEGTWWKSRVEEVDGSLVRILFLDDKRCEWIYRGSTRLEPMF
 SMKTSSASALEKKQGQLRTRP NMGAVRSKGPVVQYTQDLTGTGTQFKPVEPPQPT
 APPAPPFPAPPLSPQAGDSDLESQLAQSRKQVAKK STSFRPGSVGSGHSSPTSP
 ALSENVSGGKPGINQTYRSPLGSTASAPAPSALPAPPAPPVFHGMLERAPA EPSYR
 APMEKLFYLPHVCSYTCLSRVRPMRNEQYRGKNPLLVLPLYDFRRMTARRRVNRK
 MGFHVIYKTP CGLCLRTMQEIERYLFETGCDFLFLEMFCCLDPYVLVDRKFQPYKPFY
 YILDITYGKEDVPLSCVNEIDTT PPPQVAYSKEIPGKGVFINTGPEFLVGCDCCKDGC
 RDKSKCACHQLTIQATACTPGGQINPNSGYQYKRL EECLPTGVYECNKRCCKDPN
 MCTNRLVQHGLQVRLQLFKTQNKGWGIRCLDDIAKGSFVCIYAGKILTDD FADKEGL
 EMGDEYFANLDHIESVENFKEGYESDAPCSSDSSGVDLKDQEDGNSGTEDPEESN
 DDSSDDNF CKDEDFSTSSVWRSYATRRQTRGQKENGLSETTSKDSHPPDLGPPHI
 PVPPSIPVGGCNPPSSEETPKNK VASWLSCNSVSEGGFADSDSHSSFKTNEGGE
 RAGGSRMEA EKASTSGLGIKDEGDIKQAKKEDTDDR NK MSVVTES SRNYGYNPSP
 VKPEGLRRPPSKTSMHQSRRLMASAQSNPDDVLTLSSTESEGESGTSRKPTA GQ
 TSATAVDSDDIQTISGSEGDDFEDKKNMTGPMKRQVAVKSTRGFALKSTHGIAIKS
 TNMASVDKGES APVRKNTRQFYDGEESCYIIDAKLEGNLGRYLNHSCSPNLFVQNV
 FVDTHDLRFPWVAFFASKRIRAGTE
 LTWDYNYE VGSVEGKELLCCCGAIECRGRLLTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Lysine degradation
Full Length	Full L.

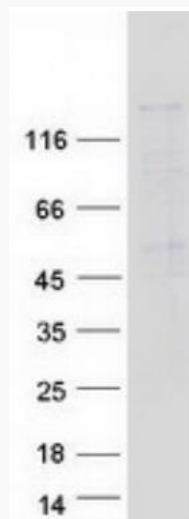
GENE INFORMATION

Gene Name	SETDB1 SET domain bifurcated histone lysine methyltransferase 1 [Homo sapiens (human)]
Official Symbol	SETDB1
Synonyms	ESET; KG1T; KMT1E; TDRD21; H3-K9-HMTase4
Gene ID	9869
mRNA Refseq	NM_001145415.2
Protein Refseq	NP_001138887.1
MIM	604396
UniProt ID	Q15047

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Coomassie blue staining of purified SETDB1 protein.

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