



Recombinant Human SET1B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50883

Size: 10ug, 100ug

Protein Name: Histone-lysine N-methyltransferase SETD1B (EC 2.1.1.364) (Lysine N-methyltransferase 2G) (SET domain-containing protein 1B) (hSET1B)

Synonym: SETD1B, KIAA1076, KMT2G, SET1B

UniProt ID: Q9UPS6

UniProt Link: www.uniprot.org/uniprotkb/Q9UPS6/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1966 AA

Molecular Weight: 213 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MENSHPPHHHHQPPPPQPGPSGERRNHHWRSYKLMIDPALKKGGHHKLYRYDGQHFSLAMSSNRP
VEIVEDPRVVGIIWTKNKELELSVPKFKIDEFYVGPVPPKQVTFAKLNDNIRENFLRDMCKKYGEVEEV
EILYNPKTKKHLGIAKVVVFATVRGAKDAVQHLHSTSMGNIIHVELDTKGETRMRFYELLVTGRYTPQ
TLPVGELDAVSPIVNETLQLSDALKRLKDGGLSAGCGSGSSSVTPNSGGTPFSQDTAYSSCRLDTPN
SYGQGTPLTPRLGTPFSQDSSYSSRQPTPSYLSQDPAVTFKARRHESKFTDAYNRRHEHHYVHNS
PAVTAVAGATAAFRGSSDLPGAVGGTGGSSGPPFKAQPQDSATFAHTPPPAQATPAPGFKSAFSP
YQTPVAHFPPPPPEPTATAAFGARDSGEFRRAPAPPPLPPAEPLAKEKPGTPPGPPPPDTNSMELG
GRPTFGWSPEPCDSPGTPTLESSPAGPEKPHDSLDSRIEMLLKEQRTKLLFLREPDSDELQMEGS
PISSSSSQLSPLAPFGTNSQPGFRGPTPPSSRPSSTGLEDISPTPLPDSEDEELDLGLGPRPPPEP
GPPDPAGLLSQTAEVALDLVGDRTPTSEKMDEGQQSSGEDMEISDDDEMPSAPITSADCPKPMVVT
GAAAVAAPSVLAPTLPLPPPPGFPPLPPPPPPPPPPQPGFPMPPPLPPPPPPPPPAHPAVTVPPPLP
APPGVPPPPILPPLPPFPPLFPVMQVDMSHVLGGQWGGMPMSFQMQTQVLSRLMTGQGACYP
PFMAAAAAAASAGLQFVNLPPYRGPFSLNSGPGRGQHWPLPKFDPSVPPPGYMPRQEDPHKAT
VDGVLLVVLKELKAIMKRDNLNRKMVEVVAFAFDEWWDKKERMAKASLTPVKSGEHKDEDRPKPK
DRIASCLLESWGKGEGLYEGLGLGIGLRGAIRLPSFKVKRKEPPDTTSSGDQKRLRPSTSVDEEDE
ESERERDRDMADTPCELAKRDPKGVGVRRRPARPLELDSGGEEDEKESLSASSSSSSASSSSGSST
TSPSSSASDKEEEQESTEEEEEEAEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEE
DTALSEASEKDEGDSDEEETVSIVTSKAEATSSSESSESSEFESSSESSESSSEDEEEVVAREEEEE



EEEEEMVAEESMASAGPEDFEQDGEEAALAPGAPAVDSLGMEEVVDIETEAVAPEERPSMLDEPPL
PVGVEEPADSREPPEEPGLSQEGAMLLSPEPPAKEVEARPPLSPERAPEHDLEVEPEPPMMLPLPL
QPPLPPPRPPRPPSPPEPETTDASHPSVPPEPLAEDHPPHTPGLCGSLAKSQSTETVPATPGGEP
PLSGGSSGLSLSSPQVPGSPFSYPAPSPSLSSGGLPRTPGRDFSFTPTFSEPSGPLLLPVCPLPTGR
RDERSGPLASPVLLTGLPLPLPLPLPLPALPAVLRAQARAPTLPPLLAPLASCPPPMKRKPGRP
RRSPPSMLSLDGPLVRPPAGAALGRELLLLPGQPQTPVFPSTHDPRTVTLDFRNAGIPAPPPPLPPQ
PPPPPPPPVPEPTKLPFKELDNQWPSEAIPPGPRGRDEVTEEYMEIAKSRGPWRRPPKKRHEDLVP
PAGSPELSPPQPLFRPRSEFEEMTILYDIWNGGIDEEDIRFLCVTYERLLQQDNGMDWLNDTLWVYH
PSTSLSSAKKKKRDDGIREHVTGCARSEGFTIDKKDKLRYLNSSRASTDEPPADTQGMSIPAQPHA
STRAGSERRSEQRRLSSFTGSCDSDLKFNQLKFRKKKLKFKCKSHIHDWGLFAMEPIAADEMVIEW
VGQNIRQVIADMREKRYEDEGIGSSYMFVRVDHDTIIDATKCGNFARFINHSCNPNCYAKVITVESQKKI
VIYSKQHINVNEEITYDYKFPIEDVKIPCLCGSENCRGTLN

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Histone-lysine N-methyltransferase SETD1B (EC 2.1.1.364) (Lysine N-methyltransferase 2G) (SET domain-containing protein 1B) (hSET1B) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Histone methyltransferase that catalyzes methyl group transfer from S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' of histone H3 (H3K4) via a non-processive mechanism (PubMed:17355966, PubMed:25561738). Part of chromatin remodeling machinery, forms H3K4me1, H3K4me2 and H3K4me3 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed:17355966, PubMed:25561738). Plays an essential role in regulating the transcriptional programming of multipotent hematopoietic progenitor cells and lymphoid lineage specification during hematopoiesis (By similarity).

Subcellular Localization: Nucleus . Nucleus speckle . Chromosome . Cytoplasm . Note=Localizes to a largely non-overlapping set of euchromatic nuclear speckles with SETD1A, suggesting that SETD1A and SET1B each bind to a unique set of target genes (Probable) (PubMed:17355966). Predominantly nuclear (PubMed:38003223).

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.



Enlibio Wuhan Enlibio Biotech Co.,Ltd

- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.