

Catalog # Aliquot Size

\$346-31G-20 20 μg \$346-31G-50 50 μg

## SETDB1 (KMT1E) Protein

Human recombinant protein expressed in Sf9 cells

#### Catalog # \$346-31G

Lot # B2035-8

## **Product Description**

Recombinant human SETDB1 (KMT1E) (715-end) was expressed by Baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is <u>BC028671</u>.

#### Gene Aliases

KMT1E, ESET, KG1T, KIAA0067

#### **Formulation**

Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

#### Storage and Stability

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

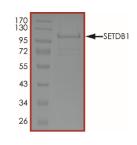
#### Scientific Background

Histone-lysine N-methyltransferase SETDB1 (SETD6) specifically trimethylates 'Lys-9' of histone H3 and plays a central role in the silencing of euchromatic genes. SETDB1 is targeted to histone H3 by TRIM28/TIF1B, a factor recruited by KRAB zinc-finger proteins. 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 by forming a corepressor complex. It was also found to be responsible for transcriptionally repressive state of genes in embryonic stem cells (ESCs).

### References

- Serra RW, et al: A KRAS-directed transcriptional silencing pathway that mediates the CpG island methylator phenotype. Elife. 2014 Mar 12;3:e02313.
- 2. http://www.uniprot.org/uniprot/Q15047.

#### **Purity**



The purity of SETDB1 (KMT1E) was determined to be >80% by densitometry.

Approx. MW ~100kDa.

# SETDB1 (KMT1E) Protein

Human recombinant protein expressed in \$f9 cells

Catalog #
Lot #
Purity
Concentration
Stability
Storage & Shipping

\$346-31G B2035-8 >80% 0.1 µg/µl

lyr at -70°C from date of shipment Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.