

## Product Information

### SETD7, GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5259**  
Storage Temperature  $-70\text{ }^{\circ}\text{C}$

Synonyms: FLJ21193, KIAA1717, KMT7, SET7, SET7/9, SET9

#### Product Description

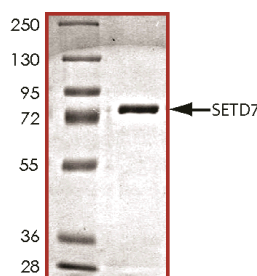
SETD7 or SET domain containing lysine methyltransferase 7 is a lysine methyltransferase, which can methylate lys<sup>4</sup> (K4) in histone H3 *in vitro* and *in vivo*. Methylation of K4 in histone H3 by SETD7 and methylation of K9 in histone H3 by SUV39H1 were found to have differential effects on subsequent histone acetylation by p300.<sup>1</sup> SETD7 can also methylate p53 at lys<sup>372</sup> within the C-terminal regulatory region.<sup>2</sup> Methylated p53 is restricted to the nucleus and the modification positively affects its stability. SETD7 regulates the expression of p53 target genes in a manner dependent on the p53 methylation site.

Recombinant full-length human SETD7 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST-tag. The SETD7 gene accession number is NM\_030648. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~74 kDa

The enzymatic activity of this product has not been determined.

**Figure 1.**  
SDS-PAGE Gel of Typical Lot:  
 $\geq 70\%$  (SDS-PAGE, densitometry)



#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

The product ships on dry ice and storage at  $-70\text{ }^{\circ}\text{C}$  is recommended. After opening, aliquot into smaller quantities and store at  $-70\text{ }^{\circ}\text{C}$ . Avoid repeated handling and multiple freeze/thaw cycles.

#### References

1. Wang, H. et al., Purification and functional characterization of a histone H3-lysine 4-specific methyltransferase. *Molec. Cell.*, **8**, 1207-1217 (2001).
2. Chuikov, S. et al., Regulation of p53 activity through lysine methylation. *Nature*, **432**, 353-360 (2004).

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