

# Recombinant Mouse Smyd3 Protein, Myc/DDK-tagged

**Cat. No.** Smyd3-5987M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length SET and MYND domain containing 3 (Smyd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Histone methyltransferase. Specifically methylates 'Lys-4' of histone H3, inducing di- and tri-methylation, but not monomethylation. Also methylates 'Lys-5' of histone H4. Plays an important role in transcriptional activation as a member of an RNA polymerase complex. Binds DNA containing 5'-CCCTCC-3' or 5'-GAGGGG-3' sequences. |
| <b>Molecular Mass</b>   | 49.1 kDa                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                              |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                            |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                    |

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## GENE INFORMATION

|                 |                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Smyd3 SET and MYND domain containing 3 [ Mus musculus (house mouse) ]                                                                                                                         |
| Official Symbol | Smyd3                                                                                                                                                                                         |
| Synonyms        | SMYD3; SET and MYND domain containing 3; SET and MYND domain-containing protein 3; zinc finger, MYND domain containing 1; zinc finger MYND domain-containing protein 1; Zmynd1; 2410008A19Rik |
| Gene ID         | 69726                                                                                                                                                                                         |
| mRNA Refseq     | NM_027188                                                                                                                                                                                     |
| Protein Refseq  | NP_081464                                                                                                                                                                                     |
| UniProt ID      | Q9CWR2                                                                                                                                                                                        |

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