

Recombinant Mouse Smyd2 Protein, Myc/DDK-tagged

Cat. No. Smyd2-5986M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SET and MYND domain containing 2 (Smyd2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically trimethylates histone H3 'Lys-4' (H3K4me3) in vivo. The activity requires interaction with HSP90alpha. Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys-860'.
Molecular Mass	49.6 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Smyd2 SET and MYND domain containing 2 [*Mus musculus* (house mouse)]

Official Symbol [Smyd2](#)

Synonyms SMYD2; SET and MYND domain containing 2; N-lysine methyltransferase SMYD2; histone methyltransferase SMYD2; SET and MYND domain-containing protein 2; KMT3C; Zmynd14; 4930402C15; 1110020E07Rik

Gene ID [226830](#)

mRNA Refseq [NM_026796](#)

Protein Refseq [NP_081072](#)

UniProt ID [Q8R5A0](#)

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