# Recombinant Mouse Set Protein, Myc/DDK-tagged

**Cat. No.** Set-5797M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length SET nuclear oncogene (Set), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | Multitasking protein, involved in apoptosis, transcription, nucleosome assembly and histone chaperoning. Isoform 2 anti-apoptotic activity is mediated by inhibition of the GZMA-activated DNase, NME1. In the course of cytotoxic T-lymphocyte (CTL)-induced apoptosis, GZMA cleaves SET, disrupting its binding to NME1 and releasing NME1 inhibition. Isoform 1 and isoform 2 are potent inhibitors of protein phosphatase 2A. Isoform 1 and isoform 2 inhibit EP300/CREBBP and PCAF-mediated acetylation of histones (HAT) and nucleosomes, most probably by masking the accessibility of lysines of histones to the acetylases. The predominant target for inhibition is histone H4. HAT inhibition leads to silencing of HAT-dependent transcription and prevents active demethylation of DNA. Both isoforms stimulate DNA replication of the adenovirus genome complexed with viral core proteins; however, isoform 2 specific activity is higher. |
| **Molecular Mass** | 33.8 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 |

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

## GENE INFORMATION

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| **Gene Name** | Set SET nuclear oncogene [ Mus musculus (house mouse) ] |
| **Official Symbol** | Set |
| **Synonyms** | SET; SET nuclear oncogene; protein SET; SET translocation; template-activating factor I; phosphatase 2A inhibitor I2PP2A; TAF-I; I-2PP2A; AA407739; StF-IT-1; 2610030F17Rik; 5730420M11Rik; MGC118419 |
| **Gene ID** | 56086 |
| **mRNA Refseq** | NM_023871 |
| **Protein Refseq** | NP_076360 |
| **UniProt ID** | Q9EQU5 |

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