

Recombinant Full Length Mouse SET nuclear oncogene Protein, Flag tagged

Cat. No. Set-13MFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse SET nuclear oncogene (Set), with C-terminal MYC/DDK tag, expressed in HEK293T cells
Species	Mouse
Source	HEK293
ProteinLength	1-289 aa
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 (By similarity).
Tag	C-Flag

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Molecular Mass	33.8 kDa
AA Sequence	MAPKRQSAILPQPKKPRPAAAPKLEDKSASPGLPKGEKEQQEAIEHIDEVQNEIDRL NEQASEEILKVEQKYNNKLRQPFFQKRSELIKIPNFWVTTFTVNHHPQVSALLGEEDEEA LHYLTRVEVTEFEDIKSGYRIDFYFDENPYFENKVLKSEFHLNESGDPSSKSTEIKWK SGKDLTKRSSQTQNKASRKQRHEEPESFFTWFTDHSDAGADELGEVIKDDIWPNPL QYYLVPDMDDEEGEAEDDDDDDEEEGLEIDEEGDEDEGEEDDDDEDEGEEGEED EGEDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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.
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Concentration	>0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name	Set SET nuclear oncogene [Mus musculus]
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;

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2610030F17Rik; 5730420M11Rik; MGC118419

Gene ID 56086

mRNA Refseq NM_023871

Protein Refseq NP_076360

UniProt ID Q9EQU5

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