

Recombinant Human SET nuclear oncogene, His-tagged

Cat. No. SET-237H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SET, 1-290aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-290 a.a.
Description	SET inhibits acetylation of nucleosomes, especially histone H4, by histone acetylases (HAT). This inhibition is most likely accomplished by masking histone lysines from being acetylated, and the consequence is to silence HAT-dependent transcription. The protein is part of a complex localized to the endoplasmic reticulum but is found in the nucleus and inhibits apoptosis following attack by cytotoxic T lymphocytes. This protein can also enhance DNA replication of the adenovirus genome. Several transcript variants encoding different isoforms have been found for this gene. Recombinant human SET protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.
Molecular Mass	35.9 kDa (313aa), confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAPKRQS PLPPQKKKPR PPPALGPEET

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SASAGLPKKG EKEQQEAIEH IDEVQNEIDR LNEQASEEIL KVEQKYNKLR
 QPFFQKRSEL IAKIPNFWVT TFVNHPQVSA LLGEEDEEAL HYLTRVEVTE
 FEDIKSGYRI DFYFDENPYF ENKVLKSEFH LNESGDPSSK STEIKWKSGK
 DLTKRSSQTQ NKASRKRQHE EPESFFTWFTH DHSDAGADEL GEVIKDDIWP
 NPLQYYLVDP MDDEEGEGEE DDDDEEEEG LEDIDEEGDE DEGEDEDDDD
 EGEEGEEDEG EDD

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name SET SET nuclear oncogene [Homo sapiens]

Official Symbol SET

Synonyms SET; SET nuclear oncogene; SET translocation (myeloid leukemia associated); protein SET; 2PP2A; IPP2A2; PHAPII; protein phosphatase type 2A inhibitor; Template Activating Factor I; chromatin remodelling factor; HLA-DR-associated protein II; phosphatase 2A inhibitor I2PP2A; inhibitor-2 of protein phosphatase-2A; inhibitor of granzyme A-activated DNase; SET translocation (myeloid leukemia-associated); Template-Activating Factor-I, chromatin remodelling factor; IGAAD; TAF-I; I2PP2A; TAF-IBETA;

Gene ID 6418

mRNA Refseq NM_001122821

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Protein Refseq	NP_001116293
MIM	600960
UniProt ID	Q01105
Chromosome Location	9q34
Pathway	Gene Expression, organism-specific biosystem; Regulation of mRNA Stability by Proteins that Bind AU-rich Elements, organism-specific biosystem; Stabilization of mRNA by HuR, organism-specific biosystem;
Function	histone binding; protein binding; protein phosphatase inhibitor activity; protein phosphatase type 2A regulator activity;

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