

Recombinant human SET protein

Catalog Number: ATGP2191

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-290aa

UniProt No.

Q01105

NCBI Accession No.

NP_001116293

Alternative Names

Protein SET isoform 1, 2PP2A, I2PP2A, IGAAD, IPP2A2, PHAPII, TAF-I, TAF-IBETA

PRODUCT SPECIFICATION

Molecular Weight

35.9 kDa (313aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMAPKRQS PLPPQKKKPR PPPALGPEET SASAGLPKKG EKEQQEAIEH IDEVQNEIDR
LNEQASEEIL KVEQKYNKLR QPFFQKRSEL IAKIPNFWVT TFDNHPQVSA LLGEEDEEAL HYLTRVEVTE FEDIKSGYRI
DFYFDENPYF ENKVLSEKFH LNESGDPSSK STEIKWKSGK DLTKRSSQTQ NKASRKQHE EPESFTWFT DHSDAGADEL
GEVIKDDIWP NPLQYYLVPD MDDEEGEGEE DDDDDDEEEEG LEDIDEEGDE DEGEDEDDDD EGEEGEEDEG EDD

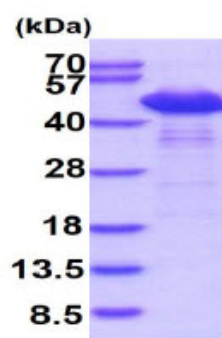
General References

Karetsou Z, Emmanouilidou A, et al. (2009). BMC Biochem. 10:10.

Li M, Makkinje A, et al. (1996). J Biol Chem. 271(19):11059-62.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.