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.

coli and purified by using conventional chromatography techniques.

Amino acid Sequence

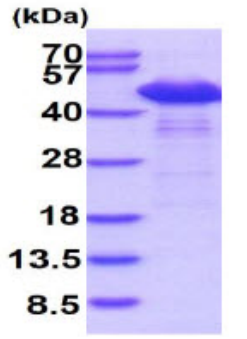
MGSSHHHHHH SSGLVPRGSH MGSMAPKRQS PLPPQKKKPR PPPALGPEET SASAGLPKKG EKEQQEAIEH IDEVQNEIDR LNEQASEEIL KVEQKYNKLR QPFFQKRSEL IAKIPNFWVT TFVNHPQVSA LLGEEDEEAL HYLTRVEVTE FEDIKSGYRI DFYFDENPYF ENKVLSKEFH LNESGDPSSK STEIKWKSGK DLTKRSSQTQ NKASRKRQHE EPESFFTWFT DHSDAGADEL GEVIKDDIWP NPLQYYLVPD MDDEEGEGEE DDDDDEEEEG LEDIDEEGDE DEGEEDEDDD 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.