

# Recombinant human SAP18 protein

Catalog Number: ATGP0340

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

20-172aa

### UniProt No.

O00422

### NCBI Accession No.

NP\_005861.2

### Alternative Names

Sin3A-associated protein 18kDa, Sin3A-associated protein, 2HOR0202, SAP18P, SAP18, Sin3A-associated protein, 18kDa Histone deacetylase complex subunit SAP18, Sin3-associated polypeptide p18.

## PRODUCT SPECIFICATION

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### Molecular Weight

19.7 kDa (173aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

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### Description

SAP18, also known as Sin3A-associated protein, is component of the histone deacetylase complex that plays an important role in the regulation of eukaryotic gene expression. This protein directly interacts with SIN3 and enhances SIN3-mediated transcriptional repression when tethered to the promoter. It also has been shown to

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play a key role in gene-specific recruitment of the HDAC complex by a number of transcription factors including Gli, GAGA, and Bicoid. Recombinant SAP18 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAVESRVTQE EIKKEPEKPI DREKTCPLLL RVFTTNNGRH HRMDEF SRGN  
VPSELQIYT WMDATLKELT SLVKEVYPEA RKKGTHFNFA IVFTDVKRPY YRVKEIGSTM SGRKGTDDSM TLQSQKFQIG  
DYLDIAITPP NRAPPPSGRM RPY

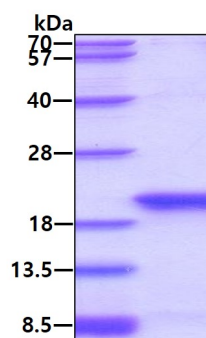
### General References

Zhang Y., et al. (1997) *Cell*. 89(3):357-64.

Matyash A, et al. (2009) *J Biol Chem*. 284(5):3012-20.

## DATA

### SDS-PAGE



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