

Recombinant human SUB1 protein

Catalog Number: ATGP0573

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-127aa

UniProt No.

P53999

NCBI Accession No.

NP_006704.3

Alternative Names

SUB1 regulator of transcriptio, SUB1 homolog transcriptional regulator, Activated RNA polymerase II transcriptional coactivator p15, Positive cofactor 4, PC4, SUB1 homolog, p14, PC4, RPO2TC1

PRODUCT SPECIFICATION

Molecular Weight

16.5 kDa (147aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

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

SuB1, also known as PC4, is a general coactivator that functions cooperatively with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. SuB1 interacts with the activation domain of transcription factor IIA (TFIIA) and TATA-binding protein (TBP) -associated factors (TAFs) to directly bind to double stranded DNA. This protein induces both activation and repression of RNAPII basal transcription, depending on the presence or absence of these transcription factors and holoenzyme components.

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Recombinant human SuB1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

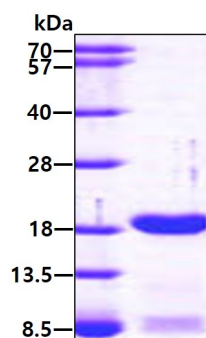
<MGSSHHHHHH SSGLVPRGSH> MPKSKELVSS SSSGSDSDSE VDKKLRKKQ VAPEKPVKKQ KTGETSRALS
SSKQSSSSRD DNMFQIGKMR YVSVRDFKGG VLIDIREYWM DPEGEMKPGR KGISLNPEQW SQLKEQISDI DDAVRKL

General References

Tavenet A., et al. (2009) Proc Natl Acad Sci U S A. 106(34):14265-70.
Scott KL., et al. (2009) Nature. 459(7250):1085-90.

DATA

SDS-PAGE



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