

# Recombinant human RDBP/NELFE protein

Catalog Number: ATGP0974

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-380aa

### UniProt No.

P18615

### NCBI Accession No.

NP\_002895

### Alternative Names

Negative elongation factor complex member E, RD RNA-binding protein, RNA-binding protein RD, RD, D6S45, NELF-E, RDP

## PRODUCT SPECIFICATION

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### Molecular Weight

45.4 kDa (400aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 1mM DTT, 0.1mM PMSF

### Purity

> 85% 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

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### Description

RDBP, also known as NELF-E, is a putative RNA binding protein. This protein is one of the five components of the multisubunit NELF complex that cooperates with DSIF to repress RNA polymerase II elongation. Control of transcription elongation requires a complex interplay between positive transcription elongation factor b and negative transcription elongation factors, DSIF and NELF. DSIF and NELF, act as negative transcription elongation factors by increasing the time the polymerase spends at pause sites. RDBP has a functional RNA-binding domain,

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whose mutations impair transcription repression without affecting known protein-protein interactions. Recombinant human RDBP protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

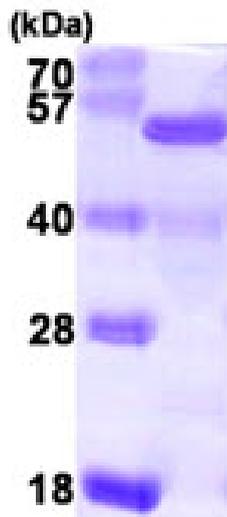
<MGSSHHHHHH SSGLVPRGSH> MLVIPPGLSE EEEALQKKFN KLKKKKKALL ALKKQSSSST TSQGGVKRSL  
SEQPVMdTAT ATEQAKQLVK SGAISAIKAE TKNSGFKRSR TLEGKLDPE KGPVPTFQPF QRSISADDDL QESSRRPQRK  
SLYESFVSSS DRLRELGPDG EEAEGPGAGD GPPRSFDWGY EERSGAHSSA SPPRSRSRDR SHERNRDRDR DRERDRDRDR  
DRDRERDRDR DRDRDRDRER DRDRERDRDR DREGPFRRSD SFPERRAPRK GNTLYVYGED MTPTLLRGAF SPFGNIIDLS  
MDPPRNCAFV TYEKMESADQ AVAELNGTQV ESVQLKVNIA RKQPMLDAAT GKSVWGLAV QNSPKGCHRD KRTQIVYSDD  
VYKENLVDGF

## General References

Wada T., et al. (2000) Mol Cell. 5(6):1067-72.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)