

# Recombinant human RDBP/NELFE protein

Catalog Number: ATGP2685

## 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

45.6 kDa (403aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by BRADFORD assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 5mM 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

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### Description

NELFE is a part of complex termed negative elongation factor (NELF) which represses RNA polymerase II transcript elongation. This protein bears similarity to nuclear RNA-binding proteins; however, it has not been demonstrated that this protein binds RNA. It contains a tract of alternating basic and acidic residues, largely arginine (R) and aspartic acid (D). Recombinant human NELFE protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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## Amino acid Sequence

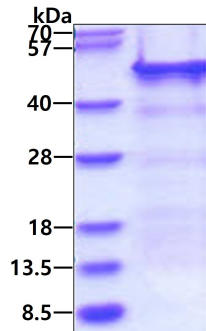
<MGSSHHHHHH SSGLVPRGSH MGS>MLVIPPG LSEEEALQK KFNKLKKKKK ALLALKKQSS SSTTSQGGVK  
RSLSEQPVMD TATATEQAKQ LVKSGAISAI KAETKNSGFK RSRTLEGKLG DPEKGPVPTF QPFORSISAD DDLQESSRRP  
QRKSLYESFV SSSDRLRELG PDGEEAEGPG AGDGPPRSFD WGYEERSGAH SSASPPRSRS RDRSHERNRD RDRDRERDRD  
RDRDRDRERD RDRDRDRDRD RERDRDRERD RDRDREGPFR RSDSFPERRA PRKGNTLYVY GEDMTPTLLR GAFSPFGNII  
DLSMDPPRNC AFVTYEKMEs ADQAVAEENG TQVESVQLKV NIARKQPMLD AATGKSVWGS LAVQNSPKGC HRDKRTQIVY  
SDDVYKENLV DGF

## General References

Yamaguchi Y., Takagi T, et al. (1999) Cell 97:41-51  
Surowy C.S., Hoganson G, et al. (1990) Gene 90:299-302

## DATA

### SDS-PAGE



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