

Recombinant Human RD RNA Binding Protein, His-tagged

Cat. No. RDBP-3419H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RDBP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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, whose mutations impair transcription repression without affecting known protein-protein interactions.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.
Molecular Weight	45.4 kDa (400aa) confirmed by MALDI-TOF.
Purity	> 85% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MLVIPPLSE EEEALQKKFN KLKKKKKALL AL KK
 QSSSST TSQGGVKRSL SEQPVMDTAT ATEQAKQLVK SGAISAIKAE TK NS GF
 KRSR TLEGKLDPE KGPVPTFQPF QRSISADDDL QESSRRPQRK SLY ES FV SS
 S DRLRELPGDG EEAEGPGAGD GPPRSFDWGY EERSGAHSSA SPP RSR SRDR
 SHERNRDRDR DRERDRDRDR DRDRERDRDR DRDRDRDRER DRD RE RDRDR
 DREGPFRRSD SFPERRAPRK GNTLYVYGED MTPTLLRGAF SPF GN IIDLS
 MDPPRNCAFV TYEKMESADQ AVAELNGTQV ESQQLKVNIA RKQPMLDAAT
 GKSVWGLAV QNSPKGCHRD KRTQIVYSDD VYKENLVDGF.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

HIV Infection; Gene Expression; Transcription

GENE INFORMATION
Gene Name

RDBP RD RNA binding protein [Homo sapiens]

Synonyms

RD RNA binding protein; RD; RDP; D6S45; NELF-E; RDBP; negative elongation factor E; nuclear protein; OTTHUMP00000174687; OTTHUMP0-0000174689; OTTHUMP00000174710; RD RNA-binding protein; RNA-binding protein RD; major histocompatibility complex gene RD; negative elongation factor polypeptide E;NELFE

Gene ID

7936

mRNA Refseq

NM_002904

Protein Refseq

NP_002895

MIM

154040

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UniProt ID	P18615
Chromosome Location	6p21.3
Function	RNA binding; nucleotide binding; protein binding
PDBrendering based on 1x5p.	