

## RDBP Human

**Description:** RDBP produced in E.Coli is a single, non-glycosylated polypeptide chain containing 400 amino acids (1-380a.a.) and having a molecular mass of 45.4 kDa. RDBP is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-188

For research use only.

**Synonyms:** RD RNA binding protein, NELF-E, RD, D6S45, RDP, Major Histocompatibility Complex Gene RD, Negative Elongation Factor Polypeptide E, nuclear protein, RDBP.

**Source:** Escherichia Coli.

**Physical Appearance:** The RDBP is supplied as a sterile filtered clear solution.

**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 DR

**Purity:** RDBP purity was found to be greater than 85% as determined by SDS-PAGE.

### Formulation:

The RDBP protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 2mM DTT and 10% glycerol.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

RDBP is a putative RNA binding protein. RDBP protein is one of the five components of the multisubunit NELF complex which collaborates with DSIF to repress RNA polymerase II elongation. Control of transcription elongation needs a complex interaction 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.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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