

# Recombinant human TDP-43/TARDBP protein

Catalog Number: ATGP2093

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-414aa

### UniProt No.

Q13148

### NCBI Accession No.

NP\_031401.1

### Alternative Names

TAR DNA binding protein, ALS10, TDP43

## PRODUCT SPECIFICATION

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### Molecular Weight

48.8 kDa (450aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

TARDBP, as known as TAR DNA binding protein, was originally identified as a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. It has also been identified in individuals diagnosed with chronic traumatic encephalopathy, a condition that often mimics ALS and that has been associated with athletes who have experienced multiple concussions and other types of head injury. It has been shown to bind both DNA and RNA and have multiple functions in transcriptional repression, pre-mRNA splicing and translational regulation. Recombinant human TARDBP protein protein, fused to His-tag at N-terminus, was

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expressed in E. coli.

## Amino acid Sequence

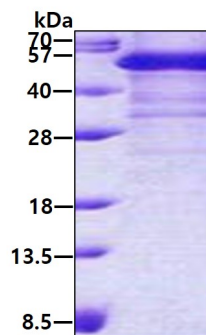
<MRGSHHHHHH GMASMTGGGQQ MGRDLYDDDD KDRWGS>MSEY IRVTEDENDE PIEIPSEDDG TVLLSTVTAQ  
FPGACGLRYR NPVSQCMRGV RLVEGILHAP DAGWGNLVYV VNYPKDNKRK MDETDAASSAV KVKRAVQKTS DLIVLGLPWK  
TTEQDLKEYF STFGEVLMVQ VKKDLKTGHS KGFGFVRFTE YETQVKVMSQ RHMIDGRWCD CKLPNSKQSQ DEPLRSRKVF  
VGRCTEDMTE DELREFFSQY GDVMDVFIPK PFRAFAFVTF ADDQIAQSLC GEDLIKIGIS VHISNAEPKH NSNRQLERSG  
RFGGNPGGFG NQGGFGNSRG GGAGLGNNQG SNMGGGMNFG AFSINPAMMA AAQAALQSSW GMMGMLASQQ  
NQSGPSGNNQ NQGNMQREPN QAFGSGNNSY SGSNSGAAIG WGSASNAGSG SGFNNGFGSS MDSKSSGWGM

## General References

Ou SH. et al. (1995) J Virol. 69:3584-3596.

## DATA

### SDS-PAGE



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