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### Recombinant human TDP-43/TARDBP protein

Catalog Number: ATGP3502

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-414aa

#### **UniProt No.**

013148

#### **NCBI Accession No.**

NP 031401.1

#### **Alternative Names**

TAR DNA binding protein 43, ALS10, TDP-43

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

44.7 kDa (414aa)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 1mM EDTA, 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

Non-Tagged

#### **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**

#### **Description**

TARDBP, as known as TAR DNA binding protein 43, 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 was expressed in E. coli and purified



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by using conventional chromatography.

#### **Amino acid Sequence**

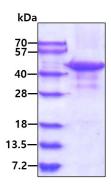
MSEYIRVTED ENDEPIEIPS EDDGTVLLST VTAQFPGACG LRYRNPVSQC MRGVRLVEGI LHAPDAGWGN LVYVVNYPKD NKRKMDETDA SSAVKVKRAV QKTSDLIVLG LPWKTTEQDL KEYFSTFGEV LMVQVKKDLK TGHSKGFGFV RFTEYETQVK VMSQRHMIDG RWCDCKLPNS KQSQDEPLRS RKVFVGRCTE DMTEDELREF FSQYGDVMDV FIPKPFRAFA FVTFADDQIA QSLCGEDLII KGISVHISNA EPKHNSNRQL ERSGRFGGNP GGFGNQGGFG NSRGGGAGLG NNQGSNMGGG MNFGAFSINP AMMAAAQAAL QSSWGMMGML ASQQNQSGPS GNNQNQGNMQ REPNQAFGSG NNSYSGSNSG AAIGWGSASN AGSGSGFNGG FGSSMDSKSS GWGM

#### **General References**

Ou SH., et al. (1995) J Virol. 69(6):3584-96.

#### **DATA**

#### **SDS-PAGE**



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

