

Recombinant human TDP-43/TARDBP protein

Catalog Number: ATGP3502

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-414aa

UniProt No.

Q13148

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

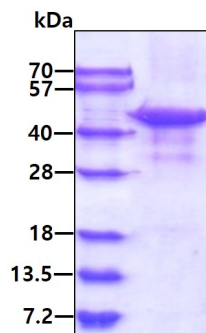
MSEYIRVTED ENDEPIEIPS EDDGTVLLST VTAQFPGACG LRYRNPVSQC MRGVRLVEGI LHAPDAGWGN LVYVVNYPKD
NKRKMDETDA SSAVKVKRAV QKTSDLIVLG LPWKTTEQDL KEYFSTFGEV LMVQVKKDLK TGHSKGFGEV RFTEYETQVK
VMSQRHMIDG RWCDCKLPNS KQSQDEPLRS RKVFGVGRCTE DMTDELREF FSQYGDVMDV FIPKPFRAFA FVTFADDQIA
QSLCGEDLII KGISVHISNA EPKHNSNRQL ERSGRFGGNNP 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