

Recombinant human TDP-43/TARDBP protein

Catalog Number: ATGP2093

PRODUCT INFORMATION

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

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

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, fused to His-tag at N-terminus, was

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expressed in *E. coli*.

Amino acid Sequence

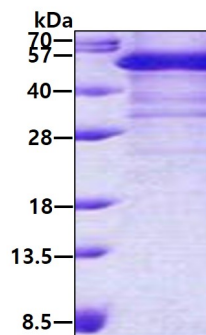
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TTEQDLKEYF STFGEVLMVQ VKKDLKTGHS KGFGFVRFTE YETQVKVMSQ RHMIDGRWCD CKLPNSKQSQ DEPLRSRKVF
VGRCTEDMTE DELREFFSQY GDVMDVFIPK PFRAFAFVTF ADDQIAQSLC GEDLIKIGIS VHISNAEPKH NSNRQLERSG
RFGGNPGGFG NQGFGNSRG GGAGLGNNQG SNMGGGMNFG AFSINPAMMA AAQAALQSSW GMMGMLASQQ
NQSGPSGNNQ NQGNMQREPN QAFGSGNNSY SGSNSGAAIG WGSASNAGSG SGFNNGFGSS MDSKSSGWGM

General References

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

DATA

SDS-PAGE



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