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TARDBP (1-414) Human

TAR DNA Binding Protein (1-414 a.a.) Human Recombinant
RCP2323

Product Overview

Name	TARDBP (1-414) Human

Description

TAR DNA Binding Protein (1-414 a.a.) Human Recombinant

Accession (Primary)	Q13148

Synonyms

ALS10, TDP43, TAR DNA-binding protein 43, TDP-43, TARDBP.

Introduction

TAR DNA Binding Protein (TARDBP) was initially recognized as a transcriptional repressor which binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, TARDBP has been detected in individuals diagnosed with chronic traumatic encephalopathy as well, which is a condition that often imitates ALS and has been related with athletes who have experienced multiple concussions and other types of head injury . TARDBP has been shown to bind both DNA and RNA, it has multiple functions in transcriptional repression, pre-mRNA splicing and translational regulation .

Source

E.coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

TARDBP protein solution (0.25mg/ml) containing 20mM Tris-HCl (pH8.0), 1mM DTT, 0.1M NaCl, 10% glycerol and 1mM EDTA.

Stability

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.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino acid sequence

MSEYIRVTED ENDEPIEIPS EDDGTVLLST VTAQFPGACG LRYRNPVSQC MRGVRLVEGI LHAPDAGWGN LVYVVNYPKD NKRKMDETDA SSAVKVKRAV QKTSDLIVLG LPWKTTEQDL KEYFSTFGEV LMVQVKKDLK

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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.

Precautions

TARDBP (1-414) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13148)