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**Product Data Sheet**


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Product Name: TARDBP (1-414) Human

Cat. No.: GP24779

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ALS10;TDP43; TAR DNA-binding protein 43; TDP-43; TARDBP.		
Amino Acid Sequence	MSEYIRVTED ENDEPIEIPS EDDGTVLLST VTAQFPGACG LRYRNPVSQC MRGVRLVEGI LHAPDAGWGN LVYVVNYPKD NKRKMDETDA SSAVKVKRAV QKTSDLIVLG LPWKTTEQDL KEYFSTFGEV LMVQVKKDLK TGHSKGFGFV RFTEYETQVK VMSQRHMIDG RWCDCKLPNS KQSQDEPLRS RKFVVGRCET DMTEDELREF FSQYGDVMDV FIPKPFRAFA FVTFADDQIA QSLCGEDLII KGISVHISNA EPKHNSNRQL ERSGRFGGNGP GGFGNQGGFG NSRGGGAGLG NNQGSNMGGG MNFGAFSINP AMMAAAQAAL QSSWGMMGML ASQQNQSGPS GNNQNQGNMQ REPNQAFGSG NNSYSGSNSG AAIGWGSASN AGSGSGFNGG FGSSMDSKSS GWGM.		
Formulation	TARDBP protein solution (0.25mg/ml) containing 20mM Tris-HCl (pH8.0), 0.1M NaCl, 1mM DTT, 1mM EDTA and 10% glycerol.		

**Introduction**

TARDNA 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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

TARDBP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 414 amino acids (1-414 a.a) and having a molecular mass of 44.7kDa. TARDBP is purified by proprietary chromatographic techniques.

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