
Product Data Sheet

Product Name: TARDBP (1-414) Human, His

Cat. No.: GP24778

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	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSEY IRVTEDEDE PIEPSEDDG TVLLSTVTAQ FPGACGLRYR NPVSQCMRGV RLVEGILHAP DAGWGNLVYV VNYPKDNKRK MDETDASSAV KVKRAVQKTS DLIVLGLPWK TTEQDLKEYF STFGEVLMVQ VKKDLKTGHS KGFGFVRFTE YETQVKVMSQ RHMIDGRWCD CKLPNSKQSQ DEPLRSRKVF VGRCTEDMTE DELREFFSQY GDVMDVFIPK PFRAFAVTF ADDQIAQSLC GEDLIIGIS VHISNAEPKH NSNRQLERSG RFGGNPGGFG NQGGFGNSRG GGAGLGNNQG SNMGGMNFG AFSINPAMMA AAQAALQSSW GMMGMLASQQ NQSGPSGNNQ NQGNMQREPN QAFGSGNNSY SGSNSGAAIG WGSASNAGSG SGFNGGGFGSS MDSKSSGWGM.		
Formulation	TARDBPprotein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M urea.		

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 450 amino acids (1-414 a.a) and having a total molecular mass of 48.8 kDa. TARDBP is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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