
Product Data Sheet

Product Name: TARDBP Human
 Cat. No.: GP24777
 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 PFRAFAFVTF ADDQIAQSLC GEDLIIGIS VHISNA.		
Formulation	TARDBP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.		

Introduction

TARDBP binds both DNA and RNA and have numerous roles in transcriptional repression, pre-mRNA splicing and translational regulation. TARDBP was initially identified as a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. TARDBP has also been identified in individuals diagnosed with chronic traumatic encephalopathy, a condition which frequently mimics ALS and that has been associated with athletes who have experienced multiple concussions and other types of head injury. TARDBP may also be involved in microRNA biogenesis, apoptosis and cell division.

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.

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

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Background

TARDBP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 296 amino acids (1-260 a.a) and having a molecular mass of 33.6kDa. TARDBP is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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