

## Recombinant Human TARDBP protein, GST-tagged

Cat. No. TARDBP-39H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TARDBP(1 - 260 aa) fused with GST tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1 - 260 aa
<b>Description</b>	HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. Activation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene is a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, this protein regulates alternate splicing of the CFTR gene. A similar pseudogene is present on chromosome 20.
<b>Form</b>	The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
<b>AA Sequence</b>	MSEYIRVTEDEENDEPIEIPSEDDGTVLLSTVTAQFPGACGLRYRNPVSQCMRGVRLV EGILHAPDAGWGNLVYVVNYPKDNKRKMDETDASSAVKVKRAVQKTS DLIVLGLPW KTTEQDLKEYFSTFGEVLMVQVKKDLKTGHSKGFGFVRFTEYETQVKVMSQRHMID

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GRWCDCKLPNSKQSQDEPLRSRKVFVGRCTEDMTEDELREFFSQYGDVMDVFIPK  
PFRAFAFVTFADDQIAQSLCGEDLIKGISVHISNA

**Purity**

95%, by SDS-PAGE with Coomassie Brilliant Blue staining.

**Storage**

Stability and Storage: Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.

Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for two weeks.

Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.

Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).

If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).

Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

## GENE INFORMATION

**Gene Name**

TARDBP TAR DNA binding protein [ Homo sapiens ]

**Official Symbol**

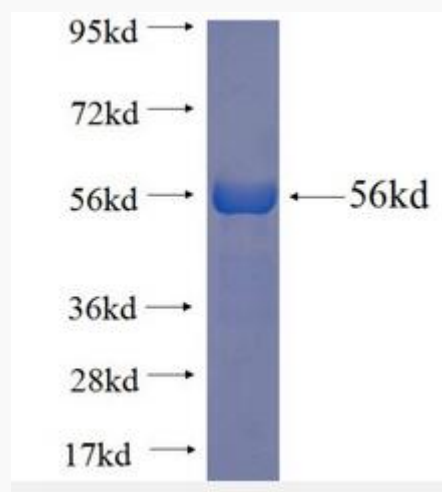
TARDBP

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<b>Synonyms</b>	TARDBP; TAR DNA binding protein; TAR DNA-binding protein 43; ALS10; TDP 43; TAR DNA-binding protein-43; TDP-43;
<b>Gene ID</b>	<a href="#">23435</a>
<b>mRNA Refseq</b>	<a href="#">NM_007375</a>
<b>Protein Refseq</b>	<a href="#">NP_031401</a>
<b>MIM</b>	<a href="#">605078</a>
<b>UniProt ID</b>	<a href="#">Q13148</a>
<b>Chromosome Location</b>	1p36.22
<b>Function</b>	DNA binding; RNA binding; double-stranded DNA binding; mRNA 3-UTR binding; nucleotide binding; protein binding; sequence-specific DNA binding transcription factor activity;



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