Recombinant Human TARDBP protein, GST-tagged

Cat. No. TARDBP-40H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TARDBP(261-414aa) fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	261-414aa
Description	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.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
AA Sequence	PKHNSNRQLERSGRFGGNPGGFGNQGGFGNSRGGGAGLGNNQGSNMGGGMNF GAFSINPAMMAAAQAALQSSWGMMGMLASQQNQSGPSGNNQNQGNMQREPNQ AFGSGNNSYSGSNSGAAIGWGSASNAGSGSGFNGGFGSSMDSKSSGWGM

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Purity	50%, 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
Synonyms	TARDBP; TAR DNA binding protein; TAR DNA-binding protein 43; ALS10; TDP 43; TAR DNA-binding protein-43; TDP-43;

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Gene ID	23435
mRNA Refseq	NM_007375
Protein Refseq	NP_031401
MIM	605078
UniProt ID	Q13148
Chromosome Location	1p36.22
Function	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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