
MATERIAL DATA SHEET

Recombinant Human TDP-43/TARDBP

Cat. # AP-190

TDP-43 (TAR DNA binding protein of 43 kDa; gene name TARDBP) is a 414 amino acid (aa) nuclear RNA/DNA binding phosphoprotein that regulates transcription and splicing. TDP-43 is aberrantly expressed in most forms of amyotrophic lateral sclerosis (ALS) and frontotemporal lobar degeneration. In these cases it is absent from the nucleus and accumulates--along with a truncated 20-28 kDa form--in the Ubiquitin-containing inclusion bodies. TDP-43 can also influence CFTR exon 9 skipping in cystic fibrosis. Human TDP-43 is 96% identical to the mouse ortholog.

Product Information

Quantity:	100 µg
MW:	45 kDa
Source:	<i>E. coli</i> -derived human TDP-43/TARDBP protein Accession # NP_031401.1
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 500 mM NaCl, 5 mM DTT, 20% (v/v) Glycerol, 0.4 M Urea
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use:	Typical protein concentration for <i>in vitro</i> use depends on the specific application.
Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from date of receipt, -70 °C as supplied.• 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Buratti E. *et al.* (2001) EMBO J. **20**: 1774
2. Chen-Plotkin A.S. *et al.* (2010) Nat. Rev. Neurol. **6**: 211
3. Johnson B.S. *et al.* (2009) J. Biol. Chem. **284**: 20329
4. Strong M.J. *et al.* (2007) Mol. Cell Neurosci. **35**: 320

For research use only. Not for use in humans.