

Lot XXXXX

## MATERIAL DATA SHEET

### TARDP/TAR DNA-binding protein 43 (TDP-43), *human recombinant*

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

<b>Quantity:</b>	100 µg
<b>Stock:</b>	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
<b>MW:</b>	45 kDa
<b>Purity:</b>	> 95% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain

#### Use & Storage

<b>Use:</b>	Typical enzyme concentration for <i>in vitro</i> use is dependent on specific application.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	Chen-Plotkin A.S., <i>et al.</i> (2010) <u>Nat. Rev. Neurol.</u> <b>6</b> : 211 Strong M. J., <i>et al.</i> (2007) <u>Mol. Cell Neurosci.</u> <b>35</b> : 320 Buratti E., <i>et al.</i> (2001) <u>EMBO J.</u> <b>20</b> : 1774 Johnson B.S., <i>et al.</i> (2009) <u>J. Biol. Chem.</u> <b>284</b> : 20329
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