

RPA011Bo01 50µg Recombinant Brain Derived Neurotrophic Factor (BDNF) Organism Species: *Bos taurus; Bovine (Cattle) Instruction manual*

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

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[PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Pro20~Arg250 Tags: N-terminal His Tag Subcellular Location: Secreted **Purity:** > 95% Traits: Freeze-dried powder Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01%Sarcosyl, 5% Trehalose . Original Concentration: 200µg/mL Applications: Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 8.8 Predicted Molecular Mass: 27.3kDa Accurate Molecular Mass: 32kDa as determined by SDS-PAGE reducing conditions. Phenomenon explanation: The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc. [<u>USAGE</u>]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined

by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no

obvious degradation and precipitation were observed. The loss rate is less than 5% within the

expiration date under appropriate storage condition.

AAGAA GOCA ACGT OCGAGG ACAAOGCAGCT TG OCCTAOCCA GGTGT OCOGAOOCA TGGG AC

[<u>SEQUENCE</u>]

P MKEANLRAQG SLAYPGVRTH GTLESMNGPK VGSRGLTSSS SLADTFEHVI EELLDEDQKV RPSEENNKDA DMYTSRVMLS SQVPLEPPLL FLLEEYKNYL DAANMSMRVR RHSDPARRGE LSVCDSISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR

[IDENTIFICATION]

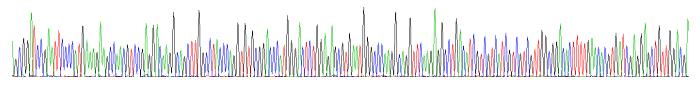


Figure. Gene Sequencing (Extract)

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Figure. SDS-PAGE

[<u>IMPORTANT NOTE</u>]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.