RPA011Po01 10μg

Recombinant Brain Derived Neurotrophic Factor (BDNF)

Organism Species: Sus scrofa; Porcine (Pig)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Pro20~Arg252

Tags: N-terminal His-Tag

Tissue Specificity: Brain.

Subcellular Location: Secreted.

Purity: >95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 8.8

Predicted Molecular Mass: 27.4kDa

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.

[USAGE]

Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[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.

[SEQUENCE]

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                    P MKEANVRGQG SLAYPGVRTH GTLESVNGPK
AGSRGLTSSS SSSLADTFEH VIEELLDEDQ KVRPNEENNK DADMYTSRVM
LSSQVPLEPP LLFLLEEYKN YLDAANMSMR VRRHSDPARR GELSVCDSIS
EWVTAADKKT AVDMSGGTVT VLEKVPVSKG QLKQYFYETK CNPMGYTKEG
CRGIDKRHWN SQCRTTQSYV RALTMDSKKR IGWRFIRIDT SCVCTLTIKR
GR
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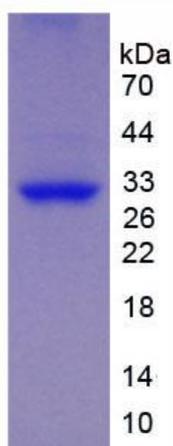
[IDENTIFICATION]

Figure 1. SDS-PAGE