

**RPC256Hu01 100µg**

**Recombinant Survival Motor Neuron Protein (SMN)**

**Organism Species: *Homo sapiens (Human)***

***Instruction manual***

**FOR RESEARCH USE ONLY**

**NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES**

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Prokaryotic expression

**Host:** *E.coli*

**Residues:** Ala2~Asn294

**Tags:** N-terminal His Tag

**Subcellular Location:** Nucleus, Cytoplasm

**Purity:** > 90%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

**Original Concentration:** 250µg/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:** 6.2

**Predicted Molecular Mass:** 35.4kDa

**Accurate Molecular Mass:** 39kDa 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 10mM 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.

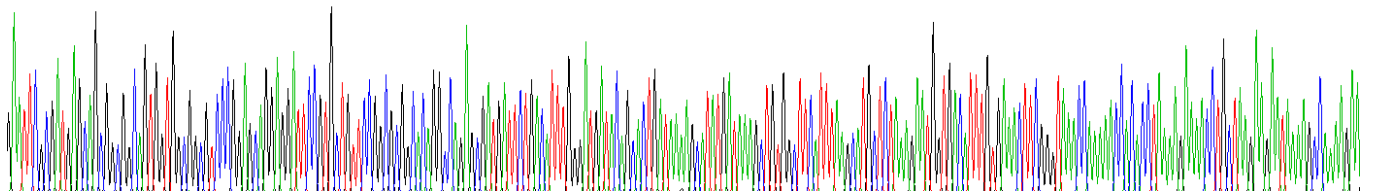
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**[ SEQUENCE ]**

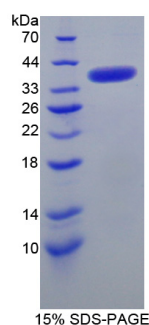
AMSSGGSGG GVPEQEDSVL FRRGTGQSDD SDIWDOTALI KAYDKAVASF  
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NIEQNAQENE NESQVSTDES ENSRSPGNKS DNIKPKSAPW NSFLPPPPPM  
PGPRLGPGKP GLKFNGPPP PPPPPHLLS CWLPPFPSPG PIIPPPPPIC  
PDSLDDADAL GSMLISWYMS GYHTGYMGMF RQNKQEGRC S HSLN

**[ IDENTIFICATION ]**

AAATCGGTGTTGAGCGGCGCGTGTGCGCGGCGCGGCGGATCGGTGCGTCCCGCGCGCGCGTGTGCGTTCGTCATTGGTGATGCTGATGAAAGATATGATTAAGGTGCGCTTCATTAAAGATCTTAAGATCGTGATTGTGGAACTTCGGTAAACCAAAACCCACCTAAAGAAAGACCTCTAGAGGATTAAGCCCTAAAGG



### Figure . Gene Sequencing (extract)



**[ IMPORTANT NOTE ]**

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.