

For Research Use Only

Recombinant Human SMN protein (rFc Tag)



Catalog Number: Eg4812

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human SMN protein Gln90-Asn151 (Accession# Q16637) with a rabbit IgG Fc tag at the C-terminus

GeneID:

6607

Accession:

Q16637

Predicted Molecular Mass:

33.2 kDa

SDS-PAGE:

34-44 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Survival Motor Neuron (SMN) protein required for efficient assembly of small nuclear ribonucleoprotein (snRNP) complexes is encoded by nearly identical telomeric and centromeric forms of SMN gene respectively. Both the SMN1 and SMN2 genes express SMN protein, however, the amount of functional full-length protein produced by SMN2 is much less than that produced by SMN1 due to the alternative splicing. The absence of SMN1 can be partially compensated for by SMN2 and the SMN2 expression level is associated with SMA severity.

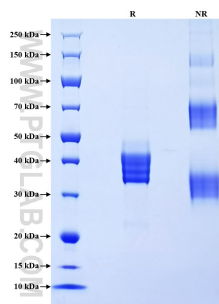
References

1. Lefebvre S, et al. (1995). Cell. 80(1):155-65.
2. Gavrillov DK, et al. (1998). Nat Genet. 20(3):230-1.
3. Monani UR, et al. (2000). Hum Mol Genet. 9(3):333-9.
4. Burghes AH, et al. (2009). Nat Rev Neurosci. 10(8):597-609.

Synonyms

SMN, C BCD541, Component of gems 1, Gemin 1, Gemin-1

Selected Validation Data



Purity of Recombinant Human SMN was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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