

For Research Use Only

Recombinant Human SMN2 protein (rFc Tag)



Catalog Number: Eg4812

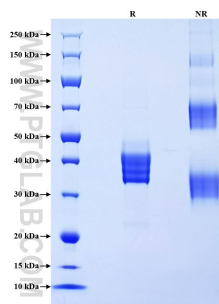
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: C-rFc
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human SMN2 protein Gln90-Asn151 (Accession# Q16637) with a rabbit IgG Fc tag at the C-terminus GeneID: 6607 Accession: Q16637 Predicted Molecular Mass: 36.2 kDa SDS-PAGE: 34-44 kDa, reducing (R) condition 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		

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

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Selected Validation Data



Purity of Recombinant Human SMN2 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.