

SPF30 Protein, Human, Recombinant (His)

General Information

Synonyms:	SPF30;SMNR;TDRD16C;survival motor neuron domain containing 1
Protein Construction:	A DNA sequence encoding the mature form of human SMNDC1 (O75940) (Met1-Gln238) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	O75940
Molecular Weight:	28.5 kDa (predicted); 29 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile PBS, 20% Glycerol, pH 7.4.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

SMNDC1 gene is a paralog of SMN1 gene, which encodes the survival motor neuron protein, mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. SMNDC1 is a nuclear protein that has been identified as a constituent of the spliceosome complex. SMNDC1 gene is differentially expressed, with abundant levels in skeletal muscle, and may share similar cellular function as the SMN1 gene. SMNDC1 is necessary for spliceosome assembly. Its overexpression causes apoptosis.

Reference

Rappsilber J, et al. (2001) SPF30 is an essential human splicing factor required for assembly of the U4/U5/U6 tri-small nuclear ribonucleoprotein into the spliceosome. *J Biol Chem.* 276(33): 31142-50.

Talbot K, et al. (1999) Characterization of a gene encoding survival motor neuron (SMN)-related protein, a constituent of the spliceosome complex. *Hum Mol Genet.* 7(13): 2149-56.

Neubauer G, et al. (1998) Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex. *Nat Genet.* 20(1):46-50.

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