

Recombinant human SMNDC1 protein

Catalog Number: ATGP0807

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-238aa

UniProt No.

O75940

NCBI Accession No.

NP_005862

Alternative Names

Survival of motor neuron-related-splicing factor 30, Survival of motor neuron-related-splicing factor 30

PRODUCT SPECIFICATION

Molecular Weight

28.9 kDa (258aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

SMNDC1 (survival motor neuron domain containing 1) is an essential splicing factor required for spliceosome assembly that belongs to the SMN family. It contains one Tudor domain with significant similarity to SMN (Survival Motor Neuron) and is expressed in skeletal muscle, pancreas and heart, localizing to Cajal bodies and nuclear speckles. Mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. Recombinant human SMNDC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

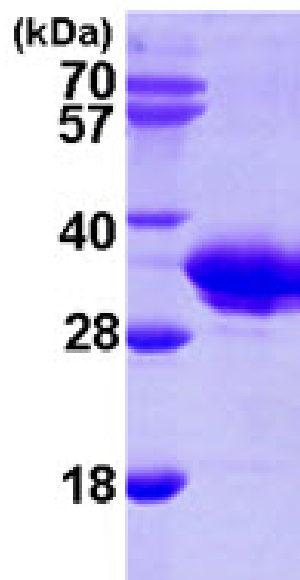
MGSSHHHHHH SGLVPRGSH MSED LAKQLA SYKAQLQQVE AALSGNGENE DLLK LKKDLQ EVIELTKDLL STQPSETLAS
SDSFASTQPT HSWKVGDKCM AVWSE DGQCY EAEIEEIDEE NGTAAITFAG YGNAEVTPLL NLKPVEEGRK AKEDSGNKPM
SKKEMIAQQR EYKKKKALKK AQRIKELEQE REDQKVWQQ FNNRAYSKNK KGQVKRSIFA SPESVTGKVG VGTTCGIADKP
MTQYQDTSKY NVRHLMPQ

General References

Meister G., et al. (2001) EMBO J. 20:2304-2314
Talbot K., et al. (1998) Hum. Mol. Genet. 7:2149-2156

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)