Survival motor neuron protein (Smn1) Recombinant Protein | Smn1 recombinant protein

Recombinant Mouse Survival motor neuron protein (Smn1)

CATALOG #	HOST
AAA113309	**E Coli or Yeast or Baculovirus or Mammalian Cell**

PRODUCT SYNONYMS

Survival motor neuron protein (Smn1); Recombinant Mouse Survival motor neuron protein (Smn1); Smn1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-288. Full Length
Sequence	MAMGSGGAGS EQEDTVLFRR GTGQSDDSDI WDDTALIKAY DKAVASFKHA LKNGDICETP DKPKGTARRK PAKKNKSQKK NATTPLKQWK VGDKCSAVWS EDGCIYPATI TSIDFKRETC VVVYTGYGNR EEQNLSDLLS PTCEVANSTE QNTQENESQV STDDSEHSSR SLRSKAHSKS KAAPWTSFLP PPPPMPGSGL GPGKPGLKFN GPPPPPPLPP PPFLPCWMPP FPSGPPIIPP PPPISPDCLD DTDALGSMLI SWYMSGYHTG YYMGFRQNKK EGKCSHTN
Species	Mouse
Production Note	**Special Offer:** The Baculovirus, Mammalian-Cell host-expressed protein is manufactured from a stock plasmid containing the protein gene. Baculovirus, Mammalian-Cellhost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Baculovirus, Mammalian-Cell host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Baculovirus, Mammalian-Cell host-expressed protein for the fastest delivery among all hosts. Please contact our **or email to** for more details.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES

SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Smn1 recombinant protein	This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. The telomeric and centromeric copies of this gene are nearly identical and encode the same protein. However, mutations in this gene, the telomeric copy, are associated with spinal muscular atrophy; mutations in the centromeric copy do not lead to disease. The centromeric copy may be a modifier of disease caused by mutation in the telomeric copy. The critical sequence difference between the two genes is a single nucleotide in exon 7, which is thought to be an exon splice enhancer. Note that the nine exons of both the telomeric and centromeric copies are designated historically as exon 1, 2a, 2b, and 3-8. It is thought that gene conversion events may involve the two genes, leading to varying copy numbers of each gene. This protein localizes to both the cytoplasm and the nucleus. Within the nucleus, the protein localizes to subnuclear bodies called gems which are found near coiled bodies containing high concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric complexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins known to be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small nucleolar RNA binding protein. Two transcript variants encoding distinct isoforms have been described.

NCBI AND UNIPROT INFORMATION

NCBI GI #	357933657
NCBI GeneID	20595
NCBI Accession #	NP_001239558.1
NCBI GenBank Nucleotide #	NM_001252629.1
UniProt Accession #	P97801; O09092
Molecular Weight	35.3 kDa
NCBI Official Full Name	survival motor neuron protein isoform 2
NCBI Official Synonym Full Names	survival motor neuron 1
NCBI Official Symbol	Smn1
NCBI Official Synonym Symbols	Smn; Gemin1; AI849087
NCBI Protein Information	survival motor neuron protein
UniProt Protein Name	Survival motor neuron protein
UniProt Gene Name	**Smn1**
UniProt Synonym Gene Names	Smn

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/smn1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113309