Ataxin-7 (ATXN7) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ataxin-7 (Atxn7), Recombinant Protein
Full Product Name	Recombinant Mouse Ataxin-7 (Atxn7) , partial
Product Gene Name	Atxn7 recombinant protein
Product Synonym Gene Name	Atxn7
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
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.
Molecular Weight	92,697 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8R4I1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Atxn7 recombinant protein	The autosomal dominant cerebellar ataxias (ADCA) are a heterogeneous group of neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCAI is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCAII, which always presents with retinal degeneration (SCA7), and ADCAIII often referred to as the `pure cerebellar syndrome (SCA5), are most likely homogeneous disorders. Several SCA genes have been cloned and shown to contain CAG repeats in their coding regions. ADCA is caused by the expansion of the CAG repeats, producing an elongated polyglutamine tract in the corresponding protein. The expanded repeats are variable in size and unstable, usually increasing in size when transmitted to successive generations. This locus has been mapped to chromosome 3, and it has been determined that the diseased allele associated with Spinocerebellar ataxia-7, contains 38-130 CAG repeats (near the N-terminus), compared to 7-17 in the normal allele. The exact function of this gene is not known, however, since the encoded protein contains a nuclear localization sequence, and is found to be localized in the nucleus, it has been postulated to be a potential transcription factor. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene.
Other Notes	Small volumes of Atxn7 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Atxn7 purchase	MBS1421314 is a recombinant protein targeting Atxn7. Also known as Recombinant Mouse Ataxin-7 (Atxn7) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atxn7. It may not necessarily be applicable to this product.

NCBI GI #	159032018

NCBI GeneID	246103
NCBI Accession #	NP_631973.3
UniProt Primary Accession #	Q8R4I1
UniProt Secondary Accession #	Q8BL17; E9QPX9
UniProt Related Accession #	Q8R4I1
GenBank Nucleotide #	NM_139227.4
NCBI Official Full Name	ataxin-7
NCBI Official Synonym Full Names	ataxin 7
NCBI Official Symbol	Atxn7
NCBI Official Synonym Symbols	Sca7; AI627028; ataxin-7; A430107N12Rik
UniProt Protein Name	Ataxin-7
UniProt Synonym Protein Names	Spinocerebellar ataxia type 7 protein homolog
Protein Family	Ataxin
UniProt Gene Name	Atxn7
UniProt Synonym Gene Names	Sca7
NCBI Protein Information	ataxin-7
UniProt Comments for Atxn7	Involved in neurodegeneration. Acts as component of the STAGA transcription coactivator-HAT complex. Mediates the interaction of STAGA complex with the CRX and is involved in CRX-dependent gene activation (). Necessary for microtubule cytoskeleton stabilization ().
Research Articles on Atxn7	**1.** Spleen-specific isoform of Pax5 and Ataxin-7 can be considered as spleen-specific unique molecular markers for the evaluation of splenomegaly and lympho-proliferative disorders.
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