Recombinant Full Length Human ATXN1 Protein, C-Flag-tagged

Cat. No. ATXN1-372HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATXN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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. The function of the ataxins is not known. This locus has been mapped to chromosome 6, and it has been determined that the diseased allele contains 40-83 CAG repeats, compared to 6-39 in the normal allele, and is associated with spinocerebellar ataxia type 1 (SCA1). Alternative splicing results in multiple transcript variants, with one variant encoding

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	multiple distinct proteins, ATXN1 and Alt-ATXN1, due to the use of overlapping alternate reading frames.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	86.7 kDa
AA Sequence	MKSNQERSNECLPPKKREIPATSRSSEEKAPTLPSDNHRVEGTAWLPGNPGGRGH GGGRHGPAGTSVELG LQQGIGLHKALSTGLDYSPPSAPRSVPVATTLPAAYATPQP GTPVSPVQYAHLPHTFQFIGSSQYSGTYA SFIPSQLIPPTANPVTSAVASAAGATTP SQRSQLEAYSTLLANMGSLSQTPGHKAEQQQQQQQQQQQHQ HQQQQQQQQQ QQQQQHLSRAPGLITPGSPPPAQQNQYVHISSSPQNTGRTASPPAIPVHLHPHQTMI PHT LTLGPPSQVVMQYADSGSHFVPREATKKAESSRLQQAIQAKEVLNGEMEKSR RYGAPSSADLGLGKAGGK SVPHPYESRHVVVHPSPSDYSSRDPSGVRASVMVLP NSNTPAADLEVQQATHREASPSTLNDKSGLHLGK PGHRSYALSPHTVIQTTHSASE PLPVGLPATAFYAGTQPPVIGYLSGQQQAITYAGSLPQHLVIPGTQPL LIPVGSTDME ASGAAPAIVTSSPQFAAVPHTFVTTALPKSENFNPEALVTQAAYPAMVQAQIHLPVV QSV ASPAAAPPTLPPYFMKGSIIQLANGELKKVEDLKTEDFIQSAEISNDLKIDSSTVE RIEDSHSPGVAVIQ FAVGEHRAQVSVEVLVEYPFFVFGQGWSSCCPERTSQLFDLP CSKLSVGDVCISLTLKNLKNGSVKKGQP VDPASVLLKHSKADGLAGSRHRYAEQEN GINQGSAQMLSENGELKFPEKMGLPAAPFLTKIEPSKPAATR KRRWSAPESRKLEKSEDEPPLTLPKPSLIPQEVKICIEGRSNVGKTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	ATXN1 ataxin 1 [Homo sapiens (human)]
Official Symbol	ATXN1
Synonyms	ATX1; SCA1; D6S504E
Gene ID	6310
mRNA Refseq	NM_000332.4
Protein Refseq	NP_000323.2
MIM	601556
UniProt ID	P54253

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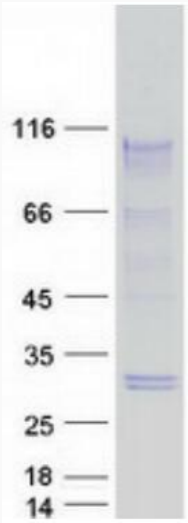

Coomassie blue staining of purified ATXN1 protein.

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