

Active Recombinant Human ATXN3L, His-tagged

Cat. No. ATXN3L-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATXN3L (amino acid residues 1-355), fused with N-terminal His, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-355 a.a.
Description	There are two main classes of DUB; cysteine proteases and metalloproteases. Ataxin-3L is a cysteine protease and a member of the Machado-Joseph Domain (MJD) enzyme family. Cloning of the human gene was first described by Gerhard et al. (2004). Machado–Joseph disease (MJD), the most common form of spinocerebellar ataxia worldwide, is a progressive and ultimately fatal neurodegenerative disorder caused by polyQ expansion in ataxin-3, a conserved and ubiquitous protein known to bind polyubiquitin chains and to function as a deubiquitylating enzyme.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of His-Ataxin-3L was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of His-Ataxin-3L was compared confirming the deubiquitylating

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	activity of His-Ataxin-3L.
Molecular Mass	~43 kDa
Purity	>92% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	ATXN3L ataxin 3-like [Homo sapiens]
Official Symbol	ATXN3L
Synonyms	ataxin 3-like; ATX3L; MJDL; EC 3.4.19.12; Machado-Joseph disease protein 1-like; EC 3.4.22; putative ataxin-3-like protein
Gene ID	92552
mRNA Refseq	NM_001135995.1
Protein Refseq	NP_001129467.1
UniProt ID	B4DYC7
Chromosome Location	Xp22.2
Pathway	Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem

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Function

omega peptidase activity; ubiquitin-specific protease activity

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