

Active Recombinant Human ATXN3L protein, His-tagged

Cat. No. ATXN3L-203H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATXN3L fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	Ataxin-3-Like protein, also known as Machado-Joseph Disease (MJD) Protein-1-Like, is a 355 amino acid deubiquitinating (DUB) enzyme with a predicted molecular weight of 41 kDa. Full-length Ataxin-3-L contains an N-terminal Joesephin Domain, two Ubiquitin-Interacting-Motifs (UIM's) and a C-terminus consisting of a polyglutamine stretch and tail. Ataxin-3-L targets include Kruppel-Like Factor 5 (KLF5). KLF5 has been reported to promote breast cell proliferation, survival and tumorigenesis. Ubiquitination and proteasome-mediated degradation of KLF5 is antagonized by Ataxin-3-L, suggesting that inhibition of this DUB might provide a target for therapeutic intervention in breast cancer. Ataxin-3 and Ataxin-3-L have been reported to cleave both K48- and K63-linked poly-Ubiquitin in vitro, though enzyme activity in such assays is inefficient when using shorter chain lengths (≤ 6). Ataxin-3-L activity can be efficiently monitored with K63-linked tetra-Ubiquitin Rhodamine (UC-355) substrate.
Form	X mg/ml (X μ M) in 50 mM HEPES pH 7.5, 100 mM NaCl, 10% (v/v) Glycerol, 1 mM TCEP
Bio-activity	Recombinant Human His6-Ataxin-3-Like protein is a Ubiquitin-specific deconjugating

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enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial His6-Ataxin-3-like concentration of 10-100 nM when utilizing K63-linked tetra-Ubiquitin Rhodamine. Higher concentrations may be required for other substrates.

Molecular Mass Predicted Molecular Mass: 42 kDa

Purity >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
12 months from date of receipt, -70 centigrade as supplied.
3 months, -70 centigrade under sterile conditions after opening.

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

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