

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	<p>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.</p>
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	<p>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</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Function

omega peptidase activity; ubiquitin-specific protease activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA