

# Product information



## Ataxin 3 , 1-370aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0344

**Synonyms:** ATX3, MJD, MJD1, SCA3, ATXN3, JOS, ATXN3

**NCBI Accession No.:** AAH33711

**Description:** Ataxin 3 is also known as Machado-Joseph disease protein 1. Machado–Joseph disease is one of several hereditary autosomal dominant neurodegenerative disorders. This protein contains trinucleotide CAG repeats in the coding region, and the expansion of these repeats from the normal 13-36 to 68-79 is the cause of Machado-Joseph disease. Ataxin 3 interacts with the major histone acetyltransferases cAMP-response-element binding protein (CREB)-binding protein, p300, and p300/CREB-binding protein-associated factor and inhibits transcription by these coactivators. Also, ataxin-3 is a proteasome-associated factor that mediates the degradation of ubiquitinated proteins. Recombinant human Ataxin-3 was expressed in *E.coli* and purified by using conventional chromatography.

<p><b>Form:</b> Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 50mM NaCl, 10% glycerol</p> <p><b>Molecular Weight:</b> 42.4 kDa (370aa)</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p> <p><b>Endotoxin Level:</b> &lt; 1.0 EU per 1 µg of protein (determined by LAL method )</p>	<p>(kDa)</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMPMAE GGVTSEDYRT FLQQPSGNMD DSGFFSIQVI SNALKVWGLE LILFNSPEYQ RLRIDP INER SFICNYKEHW FTVRKLGKQW FNLNSLLTGP ELISDYLAL FLAQLQQEGY SIFVVKGDLP DCEADQLLQM IRVQQMHRPK LIGEELAQLK EQRVHKTDLE RVLEANDGSG MLDEDEEDLQ RALALSRQEI DMEDEEADLR RAIQLSMQGS SRNISQDMTQ TSGTNLTSEE LRKRREAYFE KQQKQKQQQQ QQQQQQQQQ QQQQGDLSGQ SSSPCERPAT SSGALGSDLG DAMSEEDMLQ AAVTMSLETV RNDLKTEGKK</p>	

### General references:

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Doss Pepe EW., *et al.* (2003). *Mol Cell Biol.* **23**(18):6469-83.

Paulson., *et al.* (1997). *Ann Neurol.* **41**(4):453-62.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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