

Recombinant Human Ataxin 3

Cat. No. ATXN3-478H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Ataxin-3 was expressed in <i>E. coli</i> and purified by using conventional chromatography. MW =42.4 kDa (370aa).
Species	Human
Source	<i>E. coli</i>
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.
Amino Acid Sequence	MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMMAE GGVTSEDYRT FLQQPSGNMD DSGFFSIQVI SNALKVWGLE LILFNSPEYQ RLRIDPINER SFICNYKEHW FTVRKLGKQW FNLNSLLTGP ELISDTYLAL FLAQLQQEGY SIFVVKGDLP DCEADQLLQM IRVQQMHRPK LIGEELAQLK EQRVHKTDLE RVLEANDGSG MLDEDEEDLQ RALALSRQEI DMEDEEADLR RAIQLSMQGS SRNISQDMTQ TSGTNLTSEE LRKRREAYFE KQQQKQQQQQ QQQQQQQQQQ QQQQGDLGGQ SSHPCERPAT SSGALGSDLG DAMSEEDMLQ

 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

	AAVTMSLETV RNDLKTEGKK
Form	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 50mM NaCl, 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
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.

GENE INFORMATION

Gene Name	ATXN3 ataxin 3 [Homo sapiens]
Synonyms	ATXN3; ataxin 3; AT3; JOS; MJD; ATX3; MJD1; SCA3; josephin; olivopontocerebellar ataxia 3; Machado-Joseph disease protein 1; spinocerebellar ataxia type 3 protein; Machado-Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia 3, autosomal dominant, ataxin 3); EC 3.1.2.15; Ataxin-3
Gene ID	4287
mRNA Refseq	NM_001127696
Protein Refseq	NP_001121168
MIM	607047

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UniProt ID	P54252
Chromosome Location	14q21
Function	hydrolase activity; protein binding; ubiquitin thiolesterase activity
PDB rendering based on 1yzb.	