

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.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2mM DTT,

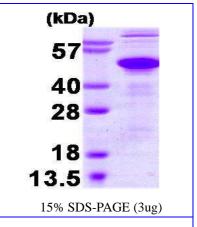
50mM NaCl, 10% glycerol

Molecular Weight: 42.4 kDa (370aa)

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)



Sequences of amino acids:

MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMRMAE 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 QQQQQQQQQ QQQQGDLSGQ SSHPCERPAT SSGALGSDLG DAMSEEDMLQ AAVTMSLETV RNDLKTEGKK

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.



Product information

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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