

32-3273: ATXN3 Recombinant Protein

Alternative Name : Ataxin-3, Machado-Joseph disease protein 1, Spinocerebellar ataxia type 3 protein, ATXN3, ATX3, MJD, MJD1, SCA3, AT3, JOS.

Description

Source : Escherichia Coli. ATXN3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 370 amino acids (1-370 a.a.) and having a molecular mass of 42.4kDa. ATXN3 is purified by proprietary chromatographic techniques. Ataxin 3 is otherwise known as Machado-Joseph disease protein 1. Machado-Joseph disease is a hereditary autosomal dominant neurodegenerative disorder. ATXN3 contains trinucleotide CAG repeats in the coding region, and the expansion of these repeats from the normal 13-36 to 68-79 causes the Machado-Joseph disease. ATXN3 is a poly-ubiquitin-binding protein whose cellular turnover is regulated by its catalytic activity. In addition, ATXN3 is a proteasome-associated factor which mediates the degradation of ubiquitinated proteins. ATXN3 folds reversibly using a single intermediate; partial destabilization of ATXN3 by chemical denaturation causes the formation of fibrillar aggregates by the non-pathological variant. 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 hinders transcription by these coactivators.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The ATXN3 protein solution contains 20mM Tris-HCl buffer (pH 7.5), 2mM DTT, 50mM NaCl and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMMAE GGVTSEDYRT FLQQPSGNMD DSGFFSIQVI SNALKVWGLELILFNSPEYQ RLRIDPINER SFICNYKEHW FTVRKLGKQW FNLNSLLTGP ELISDTYLAL FLAQLQQEGY SIFVVKGDL P DCEADQLQM IRVQQMHRPK LIGEELAQLK EQRVHKTDLE RVLEANDGSG MLDEDEEDLQ RALALSRQEI DMEDEEADLR RAIQLSMQGS SRNISQDMTQ TSGTNLTSEE LRKRREAYFE KQQKQKQQQQ QQQQQQQQQQ QQQQGDLSGQ SSHPCERPAT SSGALGSDLG DAMSEEDMLQ AAVTMSLETV RNDLKTEGKK.