Product Data Sheet

Product Name:	ATXN3 Human
Cat. No.:	GP22810
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ataxin-3; Machado-Joseph disease protein 1; Spinocerebellar ataxia type 3 protein; ATXN3; ATX3; MJD; MJD1; SCA3; AT3; JOS.		
Amino Acid Sequence	MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMRMAE GGVTSEDYRT FLQQPSGNMD DSGFFSIQVI SNALKVWGLELILFNSPEYQ RLRIDPINER SFICNYKEHW FTVRKLGKQW FNLNSLLTGP ELISDTYLAL FLAQLQQEGY SIFVVKGDLP DCEADQLLQM IRVQQMHRPK LIGEELAQLK EQRVHKTDLE RVLEANDGSG MLDEDEEDLQ RALALSRQEI DMEDEEADLR RAIQLSMQGS SRNISQDMTQ TSGTNLTSEE LRKRREAYFE KQQQKQQQQQ QQQQQQQQQQ QQQQGDLSGQ SSHPCERPAT SSGALGSDLG DAMSEEDMLQ AAVTMSLETV RNDLKTEGKK.		
Formulation	The ATXN3 protein solution contains 20mM Tris-HCl buffer (pH 7.5), 2mM DTT, 50mM NaCl and 10% glycerol.		

Introduction

Ataxin 3 is otherwise known as Machado-Joseph disease protein 1. MachadoиCJoseph 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

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transcription by these coactivators.

Stability

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.

Background

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.

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