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## Recombinant human Ataxin-3 protein

Catalog Number: ATGP0344

### **PRODUCT INFORMATION**

### **Expression system**

E.coli

### **Domain**

1-370aa

### **UniProt No.**

P54252

### **NCBI Accession No.**

AAH33711

### **Alternative Names**

Ataxin 3, ATX3, MJD, MJD1, SCA3, JOS, ATXN3, AT3, EC 3.4.22., Josephin, Machado Joseph disease, Machado Joseph disease protein 1, Machado-Joseph disease protein 1 homolog, MJD gene, Rsca3, SCA3 gene, Spinocerebellar ataxia type 3 protein

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

42.4 kDa (370aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 50mM NaCl, 10% glycerol

### **Purity**

> 90% by SDS-PAGE

### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

### **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



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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.

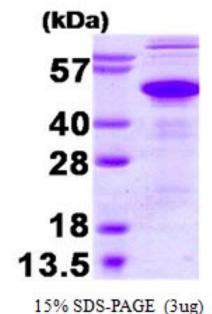
### **Amino acid Sequence**

### **General References**

Doss Pepe EW., et al. (2003). Mol Cell Biol. 23(18):6469-83. Paulson., et al. (1997). Ann Neurol. 41(4):453-62.

### **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

