Recombinant Human Ataxin-3/ATXN3 Protein

Catalog No.: RP03587LQ

Sequence Information

Species
Human

Gene ID
4287

Swiss Prot
P54252

Tags
N-His-TEV

Synonyms
AT3; JOS; MJD; ATX3; MJD1; SCA3

Product Information

Source
E. coli

Purification
> 90 % as determined by SDS-PAGE.

Calculated MW
43kDa

Observed MW
43kDa

Endotoxin

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM HEPES (pH 7.5), 500 mM NaCl, 20% glycerol.

Reconstitution

Background

Machado-Joseph disease, also known as spinocerebellar ataxia-3, is an autosomal dominant neurologic disorder. The protein encoded by this gene contains (CAG)n repeats in the coding region, and the expansion of these repeats from the normal 12-44 to 52-86 is one cause of Machado-Joseph disease. There is a negative correlation between the age of onset and CAG repeat numbers. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Basic Information

Description
Recombinant Human Ataxin-3/ATXN3 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Glu2-Lys361) of Human Ataxin-3/ATXN3 (Accession #NP_004984.2) fused with His tag at the N-Terminus.

Activity
TXN3 activity was validated using Ub-Rho110 as a substrate to assess its deubiquitinating function. The reaction rate showed a strong linear positive correlation with enzyme concentration (0–500 nM) over a 60-min reaction period.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

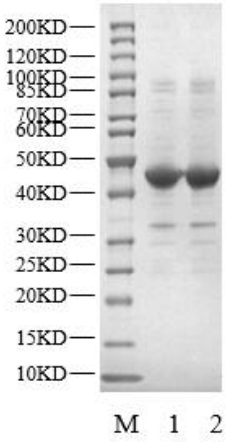
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

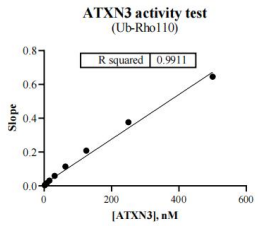
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Validation Data



Recombinant Human Ataxin-3/ATXN3 was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions



ATXN3 activity was validated using Ub-Rho110 as a substrate to assess its deubiquitinating function. The reaction rate showed a strong linear positive correlation with enzyme concentration (0–500 nM) over a 60-min reaction period.