

Recombinant Human Ataxin-3/ATXN3 protein (His tag)



Catalog Number:PDEH100314

Note: Centrifuge before opening to ensure complete recovery of vial contents.

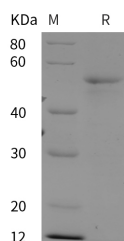
Description

Synonyms	Ataxin-3;ATXN3;Machado-Joseph disease protein1;Spinocerebellar ataxia type 3 protein
Species	Human
Expression Host	E.coli
Sequence	Met 1-Lys 370
Accession	P54252-2
Calculated Molecular Weight	40.6 kDa
Observed molecular weight	50 kDa
Tag	N-His & C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Ataxin-3 is a ubiquitously expressed nuclear protein that serves as a deubiquitinating enzyme (DUB) involved in protein homeostasis and quality control, myogenesis and degradation of misfolded chaperone substrates. As a DUB, it has two distinct features. Its N-terminal Josephin domain confers cysteine protease activity to Ataxin-3 which is important for hydrolyzing ubiquitin (Ub) linkages. The second important feature is its three Ub-interacting motifs (UIMs) through which it binds Ub conjugates and ubiquitinated proteins and bring them into proximity to trim or edit specific linkages within these Ub conjugates. It binds long poly-Ub chains and trims them. However, it has weak or no activity against chains of 4 or less Ub.

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