

Recombinant Human Ataxin-3/ATXN3 Protein (His Tag)

Catalog Number: PDEH100968

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

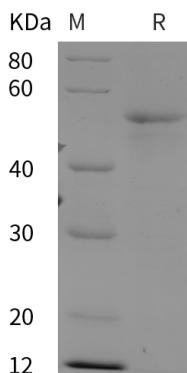
Description

Species	Human
Source	E.coli-derived Human Ataxin-3 protein Met1-Lys370, with an N-terminal His & C-terminal His
Calculated MW	40.6 kDa
Observed MW	50 kDa
Accession	P54252-2
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human Ataxin-3/ATXN3 proteins, 2 µg/lane of Recombinant Human Ataxin-3/ATXN3 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 50 kDa.

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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