

Datasheet for ABIN3131438

Atrophin 1 Protein (ATN1) (AA 1-1175) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Atrophin 1 (ATN1)
Protein Characteristics:	AA 1-1175
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Atrophin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p> MKTRQNKDSM SMRSGRKKEA PGPREELRSR GRASPGGVST SSSDGKAEKS RQTAKKARIE EPSAPKASKQ GRSEEISESE SEETSAPKKT KTEQELPRPQ SPSDLDSL DG RSINDDGSSD PRDIDQDNRS TSPSIYSPGS VENDSDSSSG LSQGPAPYPH PPPLFPPSPP PPDSTPRQPE SGFEPHPSVP PTGYHAPMEP PTSRLFQGGP PGAPPTHPQL YPGNASGGVL SGPPMGPKGG AAASSVGAPS GKGQHPPTT PIPISSSGAS GAPPKPPSA PVGGGSLPSA PPPASFPHVT PNLPPPPALR PLNNASASPP GMGAQPIPGH LPSPHAMGQG MSGLPPEGPEK GPTLAPSPHP LPPASSSAPG PPMRYPYSSS SSSAAASSSS SSSSASQYPA SQALPSYPHS FPPPTSMSVS NQPPKYTQPS LPSQAVWSQG PPPPPYGR LANNNTHPGP FPPTGGQSTA HPAAPTHHHH QQPQQQHHH GNSGPPPPGA YHPLESSNS HHAHPYNMSP SLGSLRPYPP GPAHLPPPHG QVSYNQAGPN GPPVSSSNSS GSSSQASYSC SHPSSSQGPQ GASYPFPPVP PVTTSATLS TVIATVASSP AGYKTASPPG PPQYSKRAPS PGSYKTATPP GYKPGSPPSF RTGTTPGYRG TSPPAGPGTF KPGSPTVGGP PLPPAGPSSL SSLPPPPAAP TTGPPLTATQ IKQEPAE EYE </p>
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PPESPVPPAR SPSPPPKVVD VPSHASQSAR FNKHLDRGFN SCARSDLYFV PLEGSKLAKK
RADLVEKVRR EAEQRAREEK EREREREREK EREREKEREL ERSVKLAQEG RAPVECPSLG
PVPHRPPFEP GSAVATVPPY LGPDTPALRT LSEYARPHVM SPGNRNHPFY VPLGAVDPGL
LGYNVPALYS SDPAARERER EARERDLRDR LKPGFEVKPS ELEPLHGVPG PGLDPFPRHG
GLALQPGPPG LHPFPFHPSL GPLERERLAL AAGPALRPDM SYAERLAAER QHAERVAALG
NDPLARLQML NVTPHHHQHS HIHSHLHLHQ QDAIHAASAS VHPLIDPLAS GSHLTRIPYP
AGTLNPPLL PHLHENEVLR HQLFAAPYRD LPASLSAPMS AAHQLQAMHA QSAELQRLAL
EQQQWLHAHH PLHSVPLPAQ EDYYSHLKKE SDKPL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Atn1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: Atrophin 1 (ATN1)

Alternative Name: Atn1 ([ATN1 Products](#))

Background: Transcriptional corepressor. Corepressor of MTG8 transcriptional repression. Has some intrinsic repression activity which is independent of the number of the poly-Q repeats (By similarity). Recruits NR2E1 to repress transcription. Promotes vascular smooth cell (VSMC) migration and orientation. {ECO:0000250, ECO:0000269|PubMed:16702404, ECO:0000269|PubMed:19131340}.

Molecular Weight: 124.7 kDa Including tag.

UniProt: [O35126](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process