

## Datasheet for ABIN3087956 AATF Protein (AA 2-560) (His tag)



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### 1 Image

#### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | AATF   |
| Protein Characteristics:      | AA 2-560   |
| Origin:                       | Human  |
| Source:                       | Escherichia coli (E. coli)   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This AATF protein is labelled with His tag.                          |
| Application:                  | SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys) |

#### Product Details

Sequence: AGPQPLALQL EQLLNPRPSE ADPEADPEEA TAARVIDRFD EGEDGEGDFL VVGSIRKLAS  
ASLLDSDKRY CGKTTSRKAW NEDHWEQTL P GSSDEEISDE EGSGDEDSEG LGLEEYDEDD  
LGAAEEQECG DHRESKKRSR HSAKTPGFSV QSIDFEKFT KGMDLGSSE EEEDEESGME  
EGDDAEDSQG ESEEDRAGDR NSEDDGVVMT FSSVKVSEEV EKGRAVKNQI ALWDQLLEGR  
IKLQKALLTT NQLPQPDVFP LFKDKGGPEF SSALKNSHKA LKALLRSLVG LQEELLFQYP  
DTRYLVDTGK PNAGSEEISS EDELVEEKK QRRRVPAKR KLEMEDYPSF MAKRFADFTV  
YRNRTLQKWH DKTKLASGKL GKGFGAFERS ILTQIDHILM DKERLLRRTQ TKRSVYRVLG  
KPEPAAQPVP ESLPGEPEIL PQAPANAHK DLDEEIFDDD DFYHQLLREL IERKTSSLD  
NDQVAMGRQW LAIQKLSKI HKKVDRKASK GRKLRFHVLS KLLSFMAPID HTTMNDART  
ELYRSLFGQL HPPDEGHGD

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

## Product Details

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human AATF Protein (raised in E. Coli) 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.

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### Purification:

Two step purification of proteins expressed in bacterial culture:

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.
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.

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### Purity:

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

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### Sterility:

0.22 µm filtered

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### Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

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### Grade:

Crystallography grade

## Target Details

|                   |  |
|-------------------|--|
| Target:           | AATF   |
| Alternative Name: | AATF ( <a href="#">AATF Products</a> )   |
| Background:       | May function as a general inhibitor of the histone deacetylase HDAC1. Binding to the pocket region of RB1 may displace HDAC1 from RB1/E2F complexes, leading to activation of E2F target genes and cell cycle progression. Conversely, displacement of HDAC1 from SP1 bound to the CDKN1A promoter leads to increased expression of this CDK inhibitor and blocks cell cycle progression. Also antagonizes PAWR mediated induction of aberrant amyloid peptide production in Alzheimer disease (presenile and senile dementia), although the molecular basis for this phenomenon has not been described to date. {ECO:0000269 PubMed:12450794, ECO:0000269 PubMed:12847090, ECO:0000269 PubMed:14627703, ECO:0000269 PubMed:15207272}. |
| Molecular Weight: | 64.0 kDa Including tag.  |
| UniProt:          | <a href="#">Q9NY61</a>   |
| Pathways:         | <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">SARS-CoV-2 Protein Interactome</a>  |

## 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:           | 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   |
| 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.  |

## Handling

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Expiry Date: Unlimited (if stored properly)

## Images

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