



[Go to Product page](#)

Datasheet for ABIN3120175

AADAT Protein (AA 30-425) (His tag)

3 Images

Overview

Quantity:	1 mg
Target:	AADAT
Protein Characteristics:	AA 30-425
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AADAT protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: **MHHHHHHPKTLISLAPG SPNPSMFPPK SAAFTVENGSTIRFEDDLIK RALQYSPSYG**
IPELLSWLKQ FQVKLHNPPT VNYPPNQGQM DLCITSGCQD GLCKAFEMLI NPGDTILVNE
PLFPGTLYAM KPLGCNIINV PSDEHGIPE GLKKILSQWK PEDSKDPTTK TPKFLYTPN
GNNPTGNSLT GDRKKEIYEL ARKYDFLIIE DDPYYFLQFS KPWEPTFLSM DVDGRVIRAD
TFSKTVSSGL RVGFMTGPKT LIQNVLHTQ VSSVHACTLS QLMILQLLHQ WGEEGFLAHI
DRTIDFYKNQ RDSILAAADK WLRGLAEWHV PKAGMFLWIK VKGISDTPKQL IEEKAIEREV
LLVPGNGFFI DGSAPTSFFR ASFSLATPAQ MDTAFQRLAQ LIKESL

N-terminal His-tag

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse Aadat 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).

Product Details

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:	The protein is purified from the cleared cell lysate using DETA resistant His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a 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:	AADAT
Alternative Name:	Aadat (AADAT Products)
Background:	Transaminase with broad substrate specificity. Has transaminase activity towards amino adipate, kynurenine, methionine and glutamate. Shows activity also towards tryptophan, aspartate and hydroxykynurenine. Accepts a variety of oxo-acids as amino-group acceptors, with a preference for 2-oxoglutarate, 2-oxocaproic acid, phenylpyruvate and alpha-oxo-gamma-

Target Details

methiol butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro) (By similarity).
{ECO:0000250}.

Molecular Weight: 45.4 kDa Including tag.

UniProt: [Q9WVM8](#)

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 gurantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: in solution (20 mM Hepes, pH 7.5)

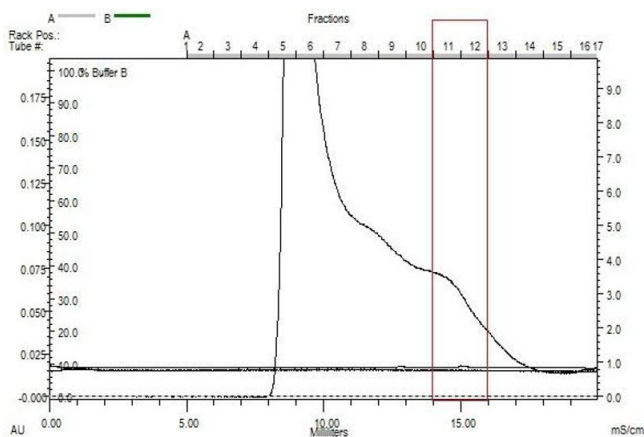
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

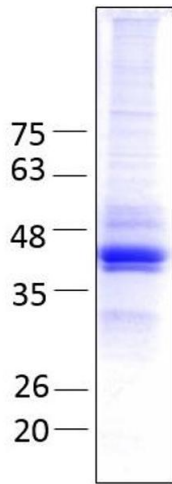
Expiry Date: Unlimited (if stored properly)

Images



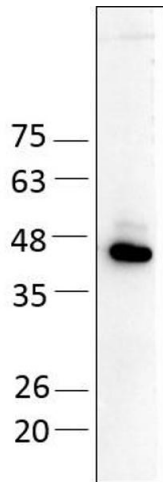
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. Amino adipate Aminotransferase (AADAT) (AA 30 - 425), gel filtration Superose 6, fraction 11 - 12



SDS-PAGE

Image 2. Aminoadipate Aminotransferase (AADAT) (AA 30 - 425), fraction 11 - 12



Western Blotting

Image 3. Aminoadipate Aminotransferase (AADAT) (AA 30 - 425), fraction 11 - 12