

Datasheet for ABIN7552499

## Antizyme Inhibitor 1 Protein (AZIN1) (AA 1-448) (His tag)



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### Overview

Quantity:	1 mg
Target:	Antizyme Inhibitor 1 (AZIN1)
Protein Characteristics:	AA 1-448
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Antizyme Inhibitor 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat AZIN1 Protein expressed in mammalian cells.
Sequence:	<p>MKGFIDDANY SVGLLDEGTN LGNVIDNYVY EHTLTGKNAF FVGD LGKIVK KHSQWQNVVA QIKPFYTVKC NSAPAVLEIL AALGTGFACS SKNEMALVQE LGVPPENIY ISPCKQVSQI KYAAKVG VNI LTC DNEIELK KIARNHPNAK VLLHIATEDN IGEEGNMKF GTTLKNCRHL LECAKELDVQ IIGVKFHVSS ACKESQVYVH ALSDARCVFD MAGEIGFTMN MLDIGGGFTG TEFQLEEVNH VISPLLDIYF PEGSGVKIIS EPGSYVSSA FTLAVNIIAK KVVENDKFPS GVEKTGSDEP AFMYYMNDGV YGSFASKLSE DLNTIPEVHK KYKEDEPLFT SSLWGPSCDE LDQIVESCLL PELNVGDWLI FDNMGADSFH EPSAFNDFQR PAIYYMMSFS DWYEMQDAGI TSDSMMKNFF FVPSCIQLSQ EDSFSAEA <b>Sequence without tag. The proposed Purification- Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

Antizyme Inhibitor 1 (AZIN1)

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### Alternative Name:

AZIN1 ([AZIN1 Products](#))

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### Background:

Antizyme inhibitor 1 (AZI) (AZI1) (Ornithine decarboxylase antizyme inhibitor),FUNCTION: Antizyme inhibitor (AZI) protein that positively regulates ornithine decarboxylase (ODC) activity and polyamine uptake. AZI is an enzymatically inactive ODC homolog that counteracts the negative effect of ODC antizymes (AZs) OAZ1, OAZ2 and OAZ3 on ODC activity by competing with ODC for antizyme-binding (PubMed:17900240, PubMed:26305948). Inhibits antizyme-dependent ODC degradation and releases ODC monomers from their inactive complex with antizymes, leading to formation of the catalytically active ODC homodimer and restoring polyamine production (PubMed:17900240). {ECO:0000269|PubMed:17900240, ECO:0000269|PubMed:26305948}.

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### Molecular Weight:

49.5 kDa

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### UniProt:

[O14977](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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