

Datasheet for ABIN7552498  
**Axin Protein (AA 1-862) (His tag)**



[Go to Product page](#)

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | Axin (AXIN1)                                |
| Protein Characteristics:      | AA 1-862                                    |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This Axin protein is labelled with His tag. |

## Product Details

|           |   |
|-----------|---|
| Purpose:  | Custom-made recombinant AXIN1 Protein expressed in mammalian cells.   |
| Sequence: | MNIQEQGFPL DLGASFTEDA PRPPVPGEEG ELVSTDPRPA SYSFCSGKGV GIKGETSTAT<br>PRRSDLDLGY EPEGSASPTP PYLKWAESLH SLLDDQDGIS LFRTFLKQEG CADLLDFWFA<br>CTGFRKLEPC DSNEEKRLKL ARAIYRKYIL DNNGIVSRQT KPATKSFYIKG CIMKQLIDPA<br>MFDQAQTEIQ ATMEENTYPS FLKSDIYLEY TRTGSESPKV CSDQSSSGSGT GKGISGYLPT<br>LNEDEEWKCD QDMEDEDDGRD AAPPGRLPQK LLETAAPRV SSSRRYSEGR EFRYGSWREP<br>VNPYYVNAGY ALAPATSAND SEQQSLSSDA DTLSLTDSSV DGIPPYRIRK QHRREMQUESV<br>QVNGRVPLPH IPRTYRVPKE VRVEPQKFAE ELIHRLEAVQ RTREAEEKLE ERLKRVRMEE<br>EGEDGDPSSG PPGPCHKLPP APAWHHFPPR CVDMGCAGLR DAHEENPESI LDEHVQRVLR<br>TPGRQSPGPG HRSPDSGHVA KMPVALGGAA SGHGKHVPKS GAKLDAAGLH HHRHVHHHHVH<br>HSTARPKEQV EAEATRAQS SFAWGLEPHS HGARSRGYSE SVGAAPNASD GLAHSGKVG<br>ACKRNAKKAEG SGKSASTEVP GASEDAEKNQ KIMQWIEGE KEISRHRRTG HGSSGTRKPQ<br>PHENSRPLSL EHPWAGPQLR TSVQPSHLFI QDPTMPPHPA PNPLTQLEEA RRRLEEEEEKR |

## Product Details

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ASRAPSKQRY VQEVMMRRGRA CVRPACAPVL HVVPAVSDME LSETETRSQR KVGGGSAQPC  
DSIVVAYYFC GEPIPYRTL V RGRAVTLGQF KELLTKKGSY RYYFKKVSDE FDCGVVFEEV  
REDEAVLPVF EEKIIGKVEK VD **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: Axin (AXIN1)

Alternative Name: AXIN1 ([AXIN1 Products](#))

Background: Axin-1 (Axis inhibition protein 1) (hAxin),FUNCTION: Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (PubMed:12192039, PubMed:27098453, PubMed:28829046). Controls dorsoventral patterning via two opposing effects, down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway (PubMed:12192039). In Wnt signaling, probably

## Target Details

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facilitates the phosphorylation of CTNNB1 and APC by GSK3B (PubMed:12192039). Likely to function as a tumor suppressor. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (PubMed:16601693). Also a component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development (PubMed:17210684). Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation (PubMed:17210684). {ECO:0000269|PubMed:12192039, ECO:0000269|PubMed:16601693, ECO:0000269|PubMed:17210684, ECO:0000269|PubMed:27098453, ECO:0000269|PubMed:28546513}.

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Molecular Weight: 95.6 kDa

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UniProt: [O15169](#)

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Pathways: [WNT Signaling](#), [Sensory Perception of Sound](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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

## 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