

Datasheet for ABIN7562345
Axin Protein (AA 1-863) (His tag)



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Overview

Quantity:	1 mg
Target:	Axin (AXIN1)
Protein Characteristics:	AA 1-863
Origin:	Mouse
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:	<pre>MNVQEQQGFPL DLGASFTEDA PRPPVPGEEG ELVSTDSRPV NHSFCSGKGT SIKSETSTAT PRRSDLDLGY EPEGSASPTP PYLRWAESLH SLLDDQDGIS LFRTFLKQEG CADLLDFWFA CSGFRKLEPC DSNEEKRLKL ARAIYRKYIL DSNGIVSRQT KPATKSFID CVMKQQIDPA MFDQAQTEIQ STMEENTYPS FLKSDIYLEY TRTGSESPKV CSDQSSSGGT GKGMSGYLPT LNEDEEWKCD QDADEDDGRD PLPPSRLTQK LLETAAPRA PSSRRYNEGR ELRYGSWREP VNPYYVNSGY ALAPATSAND SEQQSLSSDA DTLSLTDSSV DGIPPYRIRK QHRREMQESI QVNGRVPLPH IPRTYRMPKE IRVEPQKFAE ELIHRLEAVQ RTREAEEKLE ERLKRVRMEE EGEDGEMPSPG PMASHKLPSV PAWHHFPPRY VDMGCSGLRD AHEENPESIL DEHVQRMRT PGCQSPGPGH RSPDSGHVAK TAVLGGTASG HGKHVPKGLG KLDTAGLHHH RHHVHHVHHN SARPKEQMEA EVARRVQSSF SWGPETHGHA KPRSYSENAG TTLSAGDLAF GPKTSAPSKR NTKKAESGKN ANAEVPSTTE DAEKNQKIMQ WIEGEKEIS RHRKAGHGSS GLRKQQAHEs SRPLSIERPG AVHPWVSAQL RNSVQPSHLF IQDPTMPPNP APNPLTQLEE ARRRLEEEEEK</pre>

Product Details

RANKLPSKQR YVQAVMQRGR TCVRPACAPV LSVVPAVSDL ELSETETKSQ RKAGGGSAPP
CDSIVVAYYF CGEPIPYRTL VRGRAVTLGQ FKELLTKKGS YRYFVKVSD EFDCGVVFEE
VREDEAVLPV FEEKIIGKVE KVD **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

Target: Axin (AXIN1)

Alternative Name: Axin1 ([AXIN1 Products](#))

Background: Axin-1 (Axis inhibition protein 1) (Protein Fused),FUNCTION: Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (By similarity). 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. In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by

Target Details

GSK3B. Likely to function as a tumor suppressor. Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (By similarity). Also a component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development. {ECO:0000250|UniProtKB:O15169, ECO:0000269|PubMed:12223491, ECO:0000269|PubMed:15526030, ECO:0000269|PubMed:17681137}.

Molecular Weight: 96.3 kDa

UniProt: [O35625](#)

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

Application Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months