

Datasheet for ABIN7545280

Zygote Arrest 1 Protein (ZAR1) (AA 1-424) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Zygote Arrest 1 (ZAR1)
Protein Characteristics:	AA 1-424
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Zygote Arrest 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZAR1 Protein expressed in mammalian cells.
Sequence:	<p>MAALGDEVLD GYVFPACPPC SYRYPYPAAT KGKGAAGGSW QQRGRGCLPA SSPCSAGAAS LSFPGCGRLT AAIFYDSYQR ERLMALLAQV GPGLGPRARR AGSCDVAVQV SPRIDAAVQC SLGRRTLQRR ARDPESPAGP GAEGTTGGGS FSQQPSRRGL EQGSPQNGAP RPMRFPRTVA VYSPLALRRL TAFLEGPSPA AGEQRSGASD GERGPPPARL QGP EEGEVWT KKAPRRPQSD DDGEAQA AVR ASWEQPADGP ELPPREAQEG EAAPRSALRS PGQPPSAGRA RDGGDGREAA VAGEGSPRS PELGKERLRF QFLEQKYGY Y HCKDCNIRWE SAYVWCVQGT NKVYFKQFCR TCQKSYNPYR VEDITCQCK QTRCSCPVKL RHVDPKRPHR QDLCGRCKGK RLSCDSTFSF KYII</p> <p>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.</p>
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.

Product Details

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:

Zygote Arrest 1 (ZAR1)

Alternative Name:

ZAR1 ([ZAR1 Products](#))

Background:

Zygote arrest protein 1,FUNCTION: mRNA-binding protein that mediates formation of MARDO (mitochondria-associated ribonucleoprotein domain), a membraneless compartment that stores maternal mRNAs in oocytes. MARDO assembly around mitochondria is directed by an increase in mitochondrial membrane potential during oocyte growth. Promotes formation of MARDO phase-separated membraneless compartment by undergoing liquid-liquid phase separation upon binding to maternal mRNAs. Binds to the 3'-UTR of maternal mRNAs. Maternal mRNAs stored in the MARDO are translationally repressed. Essential for female fertility and oocyte-to-embryo transition by coordinating maternal mRNA storage, translation and degradation. {ECO:0000250|UniProtKB:Q80SU3}.

Molecular Weight:

45.9 kDa

UniProt:

[Q86SH2](#)

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
