

Datasheet for ABIN3089924

## BAZ1A Protein (AA 1-1556) (His tag)



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	BAZ1A
Protein Characteristics:	AA 1-1556
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAZ1A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	<p>MPLLHRKPFV RQKPPADLRP DEEVFYCKVT NEIFRHYDDF FERTILCNLS VWSCAVTGRP</p> <p>GLTYQEALLES EKARQNLQS FPEPLIIPVL YLTSLETHRSR LHEICDDIFA YVKDRYFVEE</p> <p>TVEVIRNNGA RLQCRILEVL PPSHQNGFAN GHVNSVDGET IIISDSDDSE TQSCSFQNGK</p> <p>KKDAIDPLL KYKVQPTKKE LHESAIVKAT QISRRKHLFS RDKLKLFLKQ HCEPDGVIK</p> <p>IKASSLSTYK IAEQDFS YFF PDDPPTFIFS PANRRRGRPP KRIHISQEDN VANKQTLASY</p> <p>RSKATKERDK LLKQEEMKSL AFEKAKLKRE KADALEAKKK EKEDKEKKRE ELKKIVEEER</p> <p>LKKKEEKERL KVEREKEREK LREEKRKYVE YLKQWSKPRE DMECDDLKEL PEPTPVKTRL</p> <p>PPEIFGDALM VLEFLNAFGE LFDLQDEFPD GVTLEVLEEA LVGNDSEGPL CELLFFFLTA</p> <p>IFQAIAEEEE EVAKEQLTDA DTKDLTEALD EDADPTKSAL SAVASLAAAW PQLHQGCSLK</p> <p>SLDLDSCTLS EILRLHILAS GADVTSANAK YRYQKRGGF D ATDDACMELR LSNPSLVKKL</p> <p>SSTSVYDLTP GEKMKILHAL CGKLLTLVST RDFIEDYVDI LRQAKQEFRE LKAEQHRKER</p> <p>EEAAARIRKR KEEKLKEQEQ KMKEKQEKLK EDEQRNSTAD ISIGEEERED FDTIESKDT</p>
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EQKELDQDMV TEDEDDPGSH KRGRRGKRGQ NGFKEFTRQE QINCVTREPL TADEEEALKQ  
EHQRKEKELL EKIQSAIACT NIFPLGRDRM YRRYWIFPSI PGLFIEEDYS GLTEDMLLP  
PSSFQNNVQS QDPQVSTKTG EPLMSESTSN IDQGPRDHSV QLPKPVHKPN RWCFYSSCEQ  
LDQLIEALNS RGHRESALKE TLLQEKSRIQ AQLARFSEEK FHFSDKPQPD SKPTYSRGRS  
SNAYDPSQMC AEKQLELRLR DFLLDIEDRI YQGTLGAIKV TDRHIWRSAL ESGRYELLSE  
ENKENGIIKT VNEDVEEMEI DEQTKVIVKD RLLGIKTETP STVSTNASTP QSVSSVVHYL  
AMALFQIEQG IERRFLKAPL DASDSGRSYK TVLDRWRESL LSSASLSQVF LHLSTLDRSV  
IWSKSILNAR CKICRKKGDA ENMVLCDGCD RGHHTYCVRP KLKTVPEGDW FCPECRPKQR  
SRRLSSRQRP SLESDDEDVED SMGGEDDEVD GDEEEGQSEE EEYEVEQDED DSQEEEEVSL  
PKRGRPQVRL PVKTRGKLSS SFSSRGQQQE PGRYPSRSQQ STPKTTVSSK TGRSLRKINS  
APPTETKSLR IASRSTRHSH GPLQADVFE LLSPRRKRRG RKSANNTPEN SPNFPNFRVI  
ATKSSEQSRS VNIASKLSLQ ESESKRRCRK RQSPEPSPVT LGRRSSGRQG GVHELSAFEQ  
LVVELVRHDD SWPFLKLVSQ IQVPDYDII KKPIALNIIR EKVNKCEYKL ASEFIDDIEL  
MFSNCFEYNP RNTSEAKAGT RLQAFFHIQA QKLGLHVTPS NVDQVSTPPA AKKSRI

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human BAZ1A 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).

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.

## Product Details

	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:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
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:	BAZ1A
Alternative Name:	BAZ1A ( <a href="#">BAZ1A Products</a> )
Background:	<p>Component of the ACF complex, an ATP-dependent chromatin remodeling complex, that regulates spacing of nucleosomes using ATP to generate evenly spaced nucleosomes along the chromatin. The ATPase activity of the complex is regulated by the length of flanking DNA. Also involved in facilitating the DNA replication process. BAZ1A is the accessory, non-catalytic subunit of the complex which can enhance and direct the process provided by the ATPase subunit, SMARCA5, probably through targeting pericentromeric heterochromatin in late S phase. Moves end-positioned nucleosomes to a predominantly central position. May have a role in nuclear receptor-mediated transcription repression., Component of the histone-fold protein complex CHRAC complex which facilitates nucleosome sliding by the ACF complex and enhances ACF-mediated chromatin assembly. The C-terminal regions of both CHRAC1 and POLE1 are required for these functions.</p>
Molecular Weight:	179.7 kDa Including tag.
UniProt:	<a href="#">Q9NRL2</a>

## 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 guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process