

Datasheet for ABIN3131937

## Survivin Protein (AA 1-140) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Survivin (BIRC5)
Protein Characteristics:	AA 1-140
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Survivin protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	ALiCE®
Sequence:	<p>MGAPALPQIW QLYLKNYRIA TFKNWPFLD CACTPERMAE AGFIHCPTEN EPDLAQCFEC</p> <p>FKELEGWEPD DNPIEEHRKH SPGCAFLT VK KQMEELTVSE FLKLDRQRAK NKIAKETNNK</p> <p>QKEFEETAKT TRQSIEQLAA</p> <p><b>Sequence without tag. The proposed Strep-Tag is based on experience s 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>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>• Made in Germany - from design to production - by highly experienced protein experts.</li> <li>• Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> </ul>

## Product Details

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- 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.

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.

### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

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Target:	Survivin (BIRC5)
Alternative Name:	Birc5 ( <a href="#">BIRC5 Products</a> )
Background:	Baculoviral IAP repeat-containing protein 5 (Apoptosis inhibitor 4) (Apoptosis inhibitor survivin) (TIAP),FUNCTION: Multitasking protein that has dual roles in promoting cell proliferation and

## Target Details

preventing apoptosis (PubMed:25778398). Component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis (By similarity). Acts as an important regulator of the localization of this complex, directs CPC movement to different locations from the inner centromere during prometaphase to midbody during cytokinesis and participates in the organization of the center spindle by associating with polymerized microtubules (By similarity). Involved in the recruitment of CPC to centromeres during early mitosis via association with histone H3 phosphorylated at 'Thr-3' (H3pT3) during mitosis (By similarity). The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules (By similarity). May counteract a default induction of apoptosis in G2/M phase (By similarity). The acetylated form represses STAT3 transactivation of target gene promoters (By similarity). May play a role in neoplasia. Inhibitor of CASP3 and CASP7 (By similarity). Essential for the maintenance of mitochondrial integrity and function (PubMed:25778398). {ECO:0000250|UniProtKB:O15392, ECO:0000269|PubMed:25778398}.

Molecular Weight: 16.3 kDa

UniProt: [O70201](#)

Pathways: [Apoptosis](#), [Cell Division Cycle](#), [Nuclear Hormone Receptor Binding](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months