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Datasheet for ABIN3073949

**Tubulin, beta 8 Protein (TUBB8) (AA 1-444) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	Tubulin, beta 8 (TUBB8)
Protein Characteristics:	AA 1-444
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tubulin, beta 8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence: MREIVLTQIG QCGNQIGAKF WEVISDEHAI DSAGTYHGDS HLQLERINVY YNEASGGRYV  
PRAVLVDLEP GTMDSVRSGP FGQVFRPDNF IFGQCGAGNN WAKGHYTEGA ELMESVMDVV  
RKEAESCDCL QGFQLTHSLG GGTGSGMGTL LLSKIREEYP DRIINTFSIL PSPKVSDTV  
EPYNATLSVH QLIENADETF CIDNEALYDI CSKTLKLPTP TYGDLNHLVS ATMSGVTTCL  
RFPGQLNADL RKLAVNMVPF PRLHFFMPGF APLTSRGSQQ YRALTVAELT QQMFDKNNMM  
AACDPRHGRY LTAAAI FRGR MPMREVDEQM FNIQDKNSSY FADWLPNNVK TAVCDIPPRG  
LKMSATFIGN NTAIQELFKR VSEQFTAMFR RKAFLHWYTG EGMDEMEFTE AESNMNDLVS  
EYQQYQDATA EEEEEDEEYAE EEVA

**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.**

Characteristics:	Key Benefits:
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## Product Details

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- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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

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Target:	Tubulin, beta 8 (TUBB8)
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Alternative Name:	TUBB8 ( <a href="#">TUBB8 Products</a> )
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## Target Details

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**Background:** Tubulin beta-8 chain (Tubulin beta 8 class VIII),FUNCTION: Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers. Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin. TUBB8 has a key role in meiotic spindle assembly and oocyte maturation (PubMed:26789871, PubMed:34509376).  
{ECO:0000269|PubMed:26789871, ECO:0000269|PubMed:34509376}.

**Molecular Weight:** 49.8 kDa

**UniProt:** [Q3ZCM7](#)

## Application Details

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**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:** 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!

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

**Handling Advice:** Avoid repeated freeze-thaw cycles.

**Storage:** -80 °C

## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)