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Datasheet for ABIN7126041  
**TUBA1C Protein (full length) (rho-1D4 tag)**

Overview

Quantity:	0.5 mg
Target:	TUBA1C
Protein Characteristics:	full length
Origin:	CHO cells
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TUBA1C protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), Functional Studies (Func)

Product Details

Sequence: MRECISIHVG QAGVQIGNAC WELYCLEHGI QPDGQMPSDK TIGGGDDSN TFFSETGAGK  
HVPRAVFDL EPTVIDEVRT GTYRQLFHPE QLITGKEDAA NNYARGHYTI GKEIDLVLVD  
RIRKLADQCT GLQGFLVFHS FGGGTGSGFT SLLMERLSVD YGKSKLEFS IYPAPQVSTA  
VVEPYNSILT THTTLEHSDC AFMVDNEAIY DICRRNLDIE RPTYTNLNLRL ISQIVSSITA  
SLRFDGALNV DLTEFQTNLV PYPRIHFPLA TYAPVISA EK AYHEQLTVAE ITNACFEPAN  
QMVKCDPRHG KYMACCLLYR GDVVPKDVNA AIATIKTKRT IQFVDWCPTG FKVGINYQPP  
TVVPGGDLAK VQRAVCMLSN TTAIAEAWAR LDHKFDLMYA KRAFHWHYVG EGMEEGEFSE  
AREDMAALEK DYEEVGADSA EGDDEGEEY

**Sequence without tag. The location of the tag depends on protein. You may also submit your preference when ordering.**

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - CHO Tubulin alpha-1C chain (Alpha-tubulin 3) Protein (raised in Insect Cells) purified by multi-

## Product Details

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- step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a custom-made protein and will be made for the first time for your order. This protein will be produced on the basis of on a Custom Service Project. We will make sure that every step in the production is successful from the design of the expression plasmid to the expression and purification of the final protein. Our experts in the lab will ensure that you receive a correctly folded protein.

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. 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.

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Purification:	Three step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li><li>2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.</li><li>3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	Endotoxins have not been removed. Please contact us if you require an endotoxin-free version of this product.
Grade:	Crystallography grade
Biological Activity Comment:	Protein has not been tested for activity yet.

## Target Details

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Target:	TUBA1C
Alternative Name:	Tubulin alpha-1C chain (Alpha-tubulin 3) ( <a href="#">TUBA1C Products</a> )
Background:	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.

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## Target Details

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UniProt: [P68365](#)

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Pathways: [Microtubule Dynamics, M Phase](#)

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## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: 150 mM NaCl, 20 mM NaH<sub>2</sub>PO<sub>4</sub> pH 7.4, 10 % glycerol. Note: Isoelectric point of protein taken into account regarding pH .

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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