

Datasheet for ABIN3093869

## MPHOSPH9 Protein (AA 1-1183) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	MPHOSPH9
Protein Characteristics:	AA 1-1183
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPHOSPH9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MEEFDLVKTL HKTSSSVGSD ENSLHSLGLN LNTDRSSPHL STNGVSSFSG KTRPSVIQGT  
 VEVLTSMLQE LQNSGKTDSE LWKNCETRWL QLFNLVEKQC QEQIVAAQEQ FHNQIQHIQE  
 EIKNLVKLQT SSASLASCEG NSSNKQVSSE SQMGFFSLSS ERNESVIHYP ESTEPEIQQE  
 MSTSQPCNV DSCSVSSGYG TFCISELNLY KSKDPKEFME HIDVPKGQYV APAVPAESLV  
 DGVKNENFYI QTPEECHVSL KEDVSISPGE FEHNFLGENK VSEVYSGKTN SNAITSWAQK  
 LKQNQPKRAH VEDGGSRSKQ GNEQSKKTP I EKSDFAAATH PRAFYLKPKD ETPNAWMSSD  
 GTGLTYWKLE EKDMHHSLEPE TLEKTFISLS STDVSPNQSN TSNEMKLPSL KDIYYKKQRE  
 NKQLPERNLT SASPNHPPE VLTLDPTLHM KPKQQISGIQ PHGLPNALDD RISFSPDSVL  
 EPSMSSPSDI DSFSQASNVT SQLPGFPKYP SHTKASPVDS WKNQTFQNES RTSSTFPSPVY  
 TITSNDISVN TVDEENTVMV ASASVSQSQL PGTANSVPEC ISLTSLEDPV ILSKIRQNLK  
 EKARHIADL RAYYESEINS LKQKLEAKEI SGVEDWKITN QILVDRCGQL DSALHEATSR  
 VRTLENKNNL LEIEVNDLRE RFSAAASSASK ILQERIEEMR TSSKEKDNTI IRLKSRLQDL

EEAFENAYKL SDDKEAQLKQ ENKMFQDLLG EYESLGKEHR RVKDALNTTE NKLLDAYTQI  
SDLKRMISKL EAQVKQVEHE NMLSLRHNSR IHVRPSRANT LATSDVSRRK WLIPGAEYSI  
FTGQPLDTQD SNVDNQLEET CSLGHRSPLE KDSSPGSSST SLLIKKQRET SDTPIMRALK  
ELDEGKIFKN WGTQTEKEDT SNINPRQTET SVNASRSPEK CAQQRQKRLN SASQRSSSLP  
PSNRKSSTPT KREIMLTPVT VAYSPKRSPK ENLSPGFSHL LSKNESSPIR FDILLDDLDT  
VPVSTLQRTN PRKQLQFLPL DDSEEKTYSE KATDNHVNHS SCPEPVPNGV KKVSVRTAWE  
KNKSVSYEQC KPVSVTPOGN DFEYTAKIRT LAETERFFDE LTKEKDQIEA ALSRMPSGG  
RITLQTRLNQ EALEDRLERI NRELGSVRMT LKKFHVLRYS ANL

**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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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!

## Product Details

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Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
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.

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Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Grade:

Crystallography grade

## Target Details

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Target:

MPHOSPH9

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Alternative Name:

MPHOSPH9 ([MPHOSPH9 Products](#))

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Background:

M-phase phosphoprotein 9,FUNCTION: Negatively regulates cilia formation by recruiting the CP110-CEP97 complex (a negative regulator of ciliogenesis) at the distal end of the mother centriole in ciliary cells (PubMed:30375385). At the beginning of cilia formation, MPHOSPH9 undergoes TTBK2-mediated phosphorylation and degradation via the ubiquitin-proteasome system and removes itself and the CP110-CEP97 complex from the distal end of the mother centriole, which subsequently promotes cilia formation (PubMed:30375385). {ECO:0000269|PubMed:30375385}.

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Molecular Weight:

133.0 kDa

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UniProt:

[Q99550](#)

## 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

## Application Details

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guarantee though.

Comment:

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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. If you have a special request, please contact us.

Handling Advice:

Avoid repeated freeze-thaw cycles.

Storage:

-80 °C

Storage Comment:

Store at -80°C.

Expiry Date:

Unlimited (if stored properly)



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