

Datasheet for ABIN3134992 MPHOSPH8 Protein (AA 1-858) (Strep Tag)



Overview

Quantity:	250 μg
Target:	MPHOSPH8
Protein Characteristics:	AA 1-858
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPHOSPH8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAAAEEGMS AAALVMSVPD SIGRSPESEG VGAGDEEKDA ATKGTVAVGD SEEDGEDVFE
	VERILDMKCE GGKNLYKVRW KGYTSEDDTW EPEVHLEDCK EVLLEFRKKL AENKAKAVRK
	DIQRLSLNND IFEADSDSDQ QSDTKEDISP RKKKKKIKCK EETSPEDLRK KRTKMGKLKD
	KFKTELESTS EIIGFDVKTK KRIWEVKEEL KDSKKPKKDE IKETKELKKA NKRAEVRDLK
	IKIREDVKEN RKTKKERYIE SPLESESPND SLILEDDSED FISDNREENQ NVRSVRDKTA
	QETVQEGIFE KHLDDLISIE EDAGTRVRRK KTKPRKFEEP KEIKKLESTN AFLERRAIPK
	KQRNQDKGIS NLELNKLPSP VFAQTLKSSR LSGEEKSLKS PDLAEEEKEK KNEPKGKYQK
	RYDLDKEEKA RKEPKVLKSF KEIRNAFDLF KKTTEEKNDV LENNSKREEI SLDSKIMNDN
	KTKDKCSLKE KRNTRDETDT WAYIAAEGDQ EVSDSVCQTD ETSDGRQPVL SLGMDLQLEW
	MKLEDFQKHL DGEDEPFITT NRIPNNLLRD AVKNGDYIAV KVALNSNEEY NLDQEDSTGM
	TLVMLAAAGG QDDLLRLLIT KGAKVNGRQK NGTTALIHAA EKNFLTTVAI LLEAGAFVNV

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3134992 | 02/25/2025 | Copyright antibodies-online. All rights reserved. QQSNGETALM KACKRGNSDI VRLVIECGAD CNILSKHQNS ALYFAKQCNN VLVYELLKSH LETLSRVAEE TIRDYFESRL ALLEPVFPIA CHRLCEGPDF STDFNYMPPQ NMPEGSGVLL FIFHANFLGK DVIARLCGPC SVQAVVLNDK FQLPVFLDSH FVYSFSPVAG PNKLFIRLTE APFAKVKLLI GAYRVQLQ

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:

- 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 posttranslational 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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Product Details	
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	
Target:	MPHOSPH8
Alternative Name:	Mphosph8 (MPHOSPH8 Products)
Background:	M-phase phosphoprotein 8,FUNCTION: Heterochromatin component that specifically recognizes and binds methylated 'Lys-9' of histone H3 (H3K9me) and promotes recruitment of proteins that mediate epigenetic repression. Mediates recruitment of the HUSH complex to H3K9me3 sites: the HUSH complex is recruited to genomic loci rich in H3K9me3 and is required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3, as well as MORC2. Binds H3K9me and promotes DNA methylation by recruiting DNMT3A to target CpG sites, these can be situated within the coding region of the gene. Mediates down-regulation of CDH1 expression. Also represses L1 retrotransposons in collaboration with MORC2 and, probably, SETDB1, the silencing is dependent of repressive epigenetic modifications, such as H3K9me3 mark. Silencing events often occur within introns of transcriptionally active genes, and lead to the down-regulation of host gene expression. The HUSH complex is also involved in the silencing of unintegrated retroviral DNA by being recruited by ZNF638: some part of the retroviral DNA formed immediately after infection remains unintegrated in the host genome and is transcriptionally repressed. {EC0:0000250 UniProtKB:Q99549}.
Molecular Weight:	97.5 kDa
UniProt:	Q3TYA6
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:	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

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	even the most difficult-to-express proteins, including those that require post-translational modifications.
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	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	
Handling Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer.
Format:	·
Format:	The buffer composition is at the discretion of the manufacturer.
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.