

Datasheet for ABIN3093912

MPHOSPH8 Protein (AA 1-860) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	MPHOSPH8
Protein Characteristics:	AA 1-860
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPHOSPH8 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEQVAEGARV TAVPVSAADS TEELAEVEEG VGVVGEDNDA AARGAEAFGD SEEDGEDVFE VEKILDMKTE GGVLYKVRW KGYTSDDDTW EPEIHLEDCK EVLLEFRKKI AENKAKAVRK DIQRLSLNND IFEANSDSQ QSETKEDTSP KKKKKKLRQR EEKSPDDLKK KKAKAGKLKD KSKPDLESSL ESLVFDLRTK KRISAKEEL KESKKPKKDE VKETKELKKV KKGEIRDLKT KTREDPKENR KTKKEKFVES QVESESSVLN DSPFPEDDSE GLHSDSREEK QNTKSARERA GQDMGLEHGF EKPLDSAMSA EEDTDVRGRR KKKTPRKAED TRENKLENK NAFLEKKTVP KKQRNQDRSK SAAELEKLMP VSAQTPKGRR LSGEERGLWS TDSAEEDKET KRNESKEYQ KRHSDKEEK GRKEPKGLKT LKEIRNAFDL FKLTPEEKND VSENNRKREE IPLDFKTIDD HKTKENKQSL KERRNTRDET DTWAYIAAEG DQEVLDVCQ ADENS DGRQQ ILSLGMDLQL EWMKLEDFQK HLDGKDENFA ATDAIPSNVL RDAVKNGDYI TVKVALNSNE EYNLDQEDSS GMTLVMLAAA GGQDDLRLLL ITKGAKVNGR QKNGTTALIH AAEKNFLT TV AILLEAGAFV NVQQSNGETA LMKACKRGNS DIVRLVIECG ADCNILSKHQ NSALHFAKQS NNVLVYDLLK
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NHLETLSRVA EETIKDYFEA RLALLEPVFP IACHRLCEGP DFSTDFNYKP PQNIPEGSGI
LLFIFHANFL GKEVIARLCG PCSVQAVVLN DKFQLPVFLD SHFVYSFSPV AGPNKLFIRL
TEAPSAKVKL LIGAYRVQLQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human MPHOSPH8 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: MPHOSPH8

Alternative Name: MPHOSPH8 ([MPHOSPH8 Products](#))

Background: Heterochromatin component that specifically recognizes and binds methylated 'Lys-9' of histone H3 (H3K9me) and promotes recruitment of proteins that mediate epigenetic repression (PubMed:20871592, PubMed:26022416). Mediates recruitment of the HUSH complex to H3K9me3 sites: the HUSH complex is recruited to genomic loci rich in H3K9me3 and is probably required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3 (PubMed:26022416). Binds H3K9me and promotes DNA methylation by recruiting DNMT3A to target CpG sites, these can be situated within the coding region of the gene (PubMed:20871592). Mediates down-regulation of CDH1 expression (PubMed:20871592). {ECO:0000269|PubMed:20871592, ECO:0000269|PubMed:26022416}.

Molecular Weight: 98.1 kDa Including tag.

UniProt: [Q99549](#)

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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



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