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H2AFB3 Protein (AA 1-115) (His tag)



Image



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Quantity:	1 mg
Target:	H2AFB3
Protein Characteristics:	AA 1-115
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This H2AFB3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	MPRRRRRGS SGAGGRGRTC SRTVRAELSF SVSQVERSLR EGHYAQRLSR TAPVYLAAVI
	EYLTAKVLEL AGNEAQNSGE RNITPLLLDM VVHNDRLLST LFNTTTISQV APGED
	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 H2AFB2, H2AFB3 Protein (raised in E. Coli) 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

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 receival 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 bacterial culture:

- 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

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	H2AFB3
Alternative Name:	H2AFB2, H2AFB3 (H2AFB3 Products)
Background:	Atypical histone H2A which can replace conventional H2A in some nucleosomes and is associated with active transcription and mRNA processing. Nucleosomes wrap and compact
	DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as
	a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA
	replication and chromosomal stability. Nucleosomes containing this histone are less rigid and

organize less DNA than canonical nucleosomes in vivo. They are enriched in actively		
transcribed genes and associate with the elongating form of RNA polymerase. They associate		
with spliceosome components and are required for mRNA splicing. May participate in		
spermatogenesis. {ECO:0000269 PubMed:15257289, ECO:0000269 PubMed:16287874,		
ECO:0000269 PubMed:16957777, ECO:0000269 PubMed:17591702,		
ECO:0000269 PubMed:17726088, ECO:0000269 PubMed:18329190,		
ECO:0000269 PubMed:22795134}.		

increase solubility. We will discuss all possible options with you in detail to assure that you

Molecular Weight:

13.7 kDa Including tag.

UniProt:

P0C5Z0

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

Restrictions:

For Research Use only

receive your protein of interest.

Handling

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