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Datasheet for ABIN3131785 HMGB3 Protein (AA 1-200) (His tag)

Image



Overview

Quantity:	1 mg
Target:	HMGB3
Protein Characteristics:	AA 1-200
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMGB3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MAKGDPKKPK GKMSAYAFFV QTCREEHKKK NPEVPVNFAE FSKKCSERWK TMSSKEKSKF
	DEMAKADKVR YDREMKDYGP AKGGKKKKDP NAPKRPPSGF FLFCSEFRPK IKSTNPGISI
	GDVAKKLGEM WNNLSDNEKQ PYVTKAAKLK EKYEKDVADY KSKGKFDGAK GPAKVARKKV
	EEEEEEEE EEEEEEDE
	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.
	Mouse Hmgb3 Protein (raised in E. Coli) purified by multi-step, protein-specific process to
	ensure crystallization grade.
	ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).

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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 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.
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.
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 µm filtered
Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Crystallography grade
HMGB3

Target:	HMGB3
Alternative Name:	Hmgb3 (HMGB3 Products)
Background:	Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. Associates with chromatin and binds DNA with a preference to non-
	canonical DNA structures such as single-stranded DNA. Can bent DNA and enhance DNA

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	flexibility by looping thus providing a mechanism to promote activities on various gene
	promoters (By similarity). Proposed to be involved in the innate immune response to nucleic
	acids by acting as a cytoplasmic promiscuous immunogenic DNA/RNA sensor
	(PubMed:19890330). Negatively regulates B-cell and myeloid cell differentiation. In
	hematopoietic stem cells may regulate the balance between self-renewal and differentiation.
	Involved in negative regulation of canonical Wnt signaling (PubMed:12714519,
	PubMed:15358624, PubMed:16945912). {ECO:0000250 UniProtKB:P09429,
	ECO:0000250 UniProtKB:P40618, ECO:0000269 PubMed:12714519,
	ECO:0000269 PubMed:15358624, ECO:0000269 PubMed:16945912,
	ECO:0000269 PubMed:19890330}.
Molecular Weight:	24.0 kDa Including tag.
UniProt:	054879
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. 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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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

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