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# Datasheet for ABIN3120369 MBD2 Protein (AA 1-414) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	MBD2
Protein Characteristics:	AA 1-414
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

#### Product Details

Sequence:	MRAHPGGGRC CPEQEEGESA AGGSGAGGDS AIEQGGQGSA LAPSPVSGVR REGARGGGRG
	RGRWKQAARG GGVCGRGRGR GRGRGRGRGR GRGRGRPQSG GSGLGGDGGG GAGGCGGGSG
	GGVAPRRDPV PFPSGSSGPG PRGPRATESG KRMDCPALPP GWKKEEVIRK SGLSAGKSDV
	YYFSPSGKKF RSKPQLARYL GNAVDLSSFD FRTGKMMPSK LQKNKQRLRN DPLNQNKGKP
	DLNTTLPIRQ TASIFKQPVT KFTNHPSNKV KSDPQRMNEQ PRQLFWEKRL QGLSASDVTE
	QIIKTMELPK GLQGVGPGSN DETLLSAVAS ALHTSSAPIT GQVSAAVEKN PAVWLNTSQP
	LCKAFIVTDE DIRKQEERVQ QVRKKLEEAL MADILSRAAD TEEVDIDMDS GDEA
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Mbd2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>

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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 tim	ne 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 compariso	on to ordering custom
made proteins from other companies is that there is no financial obliga	ation in case the protein
cannot be expressed or purified.	
In the unlikely event that the protein cannot be expressed or purified we	e do not charge anything
(other companies might charge you for any performed steps in the exp	pression process for
custom-made proteins, e.g. fees might apply for the expression plasmi	d, the first expression
experiments or purification optimization).	
When you order this made-to-order protein you will only pay upon recei	ival 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 pro	tein 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 n	neasured against its
specific reference buffer.	
The concentration of the protein is calculated using its specific absorp	tion 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	9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell	, 0
different His-tag capture materials: high yield, EDTA resistant, or DTT fractions are analyzed by SDS-PAGE.	Fresistant. Eluate
2. Protein containing fractions of the best purification are subjected to	second purification step
through size exclusion chromatography. Eluate fractions are analyze	ed by SDS-PAGE and
Western blot.	
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography ar	nd Western Blot.
Sterility: 0.22 µm filtered	
Endotoxin Level: Protein is endotoxin free.	
Grade: Crystallography grade	
Target Details	
Target: MBD2	
Alternative Name: Mbd2 (MBD2 Products)	

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## Target Details

Background:	Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binds hemimethylated DNA as well. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing. Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (By similarity). May enhance the activation of some unmethylated cAMP-responsive promoters (By similarity). Selectively represses transcription activity of methylated rRNA promoters. {ECO:0000250, ECO:0000269 PubMed:14610093, ECO:0000269 PubMed:9774669}.
Molecular Weight:	44.5 kDa Including tag.
UniProt:	Q9Z2E1
Pathways:	Chromatin Binding
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)



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

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