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# MBD5 Protein (AA 1-1498) (Strep Tag)



### Overview

Quantity:	1 mg
Target:	MBD5
Protein Characteristics:	AA 1-1498
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### **Product Details**

Sequence:

MNGGKECDGG DKEGGLAAIQ VPVGWQRRVD HNGVLYISPS GSLLSCLDQV KTYLLTDGTC KCGLECPLIL PKVFNFDPGA AVKQRTAEDV KADDDVTKLC IHKRKIIAVA TLHQSMEAPH PSLVLTSPGG GTNATPVVPS RAATPRSVRN KSHEGITNSV MPECKNPFKL MTGSSNAMGR LYMQDLPGSQ QQELHPVYPR QRLGSSEHGQ KSPFRGSHGG LPSPASSGSQ IYGDGSISPR TDPLGSPDVF TRNNPGFHGA PNSSPIHLNR TPLSPPSVML HGSPVQSSCA MAGRTNIPLS PTLTTKSPVM KKPMCNFSTN MEIPRAMFHH KPPQGPPPPP PPSCALQKKP LTSEKDPLGI LDPIPSKPVN QNPIIINPTS FHSNVHSQVP VMNVSMPPAV VPLPSNLPLP TVKPGHMNHG SHVQRIQHSA STSLSPSPVT SPVHMMGTGI GRIEASPQRS RSSSTSSDHG NFMMPPVGPQ ATCSGIKVPP RSPRSTIGSP RPSMPSSPST KSDGHHQYKD IPNPLIAGMS NVLNTPSSAA FPTAPAGNGS VKSQPGLLGM PLNQILNQHN AASFPASSLL SAAAKAQLAN QNKLAGNNSS SSNNSGAVAS SGNTEGHSTL NTMFPPTANM LLPTGEGQSG RAALRDKLMS QQKDSLRKRK QPPTTVLSLL RQSQMDSSAA PKPGPDLLRK HGQGSFPISS MSQLLQSMSC QSSHLSSNST

PGCGGSNTAL PCSANQLHFP DPNMNSTVLQ NSLTQSIPLR GEAVHCHNAN TNFVHSNSPV
PNHHLAGLIN QIQASGNCGM LSQSGMALGN SLHPNPPQSR ISTSSTPVIP NSIVSSYNQT
SSEAGGSSLP SSIAIAGSNH PAITKTTSVL QDGVIVTTAA GNPLQSQLPI GSDFPFVGQE
HALHFPSNST ANNHLPHPLN PSLLSSLPIS LPVNQQHLLN QNLLNILQPS AGEGDISSIN
NSLNNHQLTH LQSLLNSNQM FPPNQQPQQH LLQGHQNLQA FQGQPTVPCP ANNNPMACLF
QNFQVRMQGD AALLNKRIST QPGLTTLPEN PNLALPHFQD TPCELQPRID LGQPMKDGLV
MGGQGDASVD AIYKAVVDAA SKGMQVVITT AVNSTTQISP IPALSAMSAF TASIGDPLNL
SSAVSAVIHG RNMGGVDHDG RLRNARGARL PKNIDHGKNS SEGDGFECFK SASCHTSRKQ
WDGEQSPRGE RNRWKYEEFL DHPGHIHSSP CHERPNNVST LPFLAGEQHP ILLPPRNCQG
DKILEENFRY NNYKRTMMSF KERLESTVER CTHINGNRPR QSRGFGELLG TAKQDLVLEG
QSPGSSNSLE SSLVKDYIHY NGDFNAKTIN GCVPSPSDAK SISSEDDLRN PDSPSSHELI
HYRPRTFNVG DLVWGQIKGL TSWPGKFIRE DDVHNSCQQS PEEGKVEPEK LKTLTEGLEA
YSRVRKRSRK SGKLNNHLEA AIHEAMSELD KMSGTVHQIP QGDRQMRPPK PKRRKISR

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

### 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## **Target Details**

Target:	MBD5
Alternative Name:	Mbd5 (MBD5 Products)
Background:	Methyl-CpG-binding domain protein 5 (Methyl-CpG-binding protein MBD5),FUNCTION: Binds to heterochromatin. Does not interact with either methylated or unmethylated DNA (in vitro) (By similarity). {ECO:0000250}.
Molecular Weight:	160.3 kDa
UniProt:	B1AYB6
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 guarantee though.
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	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)