

Datasheet for ABIN7565297
MBD1 Protein (AA 1-636) (His tag)



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Overview

Quantity:	1 mg
Target:	MBD1
Protein Characteristics:	AA 1-636
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Mbd1 Protein expressed in mammalien cells.
Sequence:	MAESWQDCPA LGPGWKRRES FRKSGASFGR SDIYYQSPTG EKIRSKVELT RYLGPACDLT LDFRQGTLC HPIPKTHPLA VPSKKKKKPS KPAKTKKQV GLQRSEVRIE TPQGEYKAPT ATALASLSVS ASASSSASAS ASASSHAPVC CENCGIHFSW DGVKRQLRKT LCKDCRAQRI AFNREQRMFK RVGCGDCAAC LVKEDCGVCS TCRLQLPSDV ASGLYCKCER RRCLRIMEKS RGCGVCRGCQ TQEDCGHCCI CLRSPRPLK RQWRCLQRRC FWGKRDSSKR GSKVASQRHS QAPPLPPHPA SQYTEPELH ISDIAPTPA EFIYYCVDED EDELQPYTNQ RQNRKCGACA ACLRRMDCGR CDFCCDKPKF GGGNQKRQKC RWRQCLQFAM KRLPSAGSG SGEGAGLRPY QTHQTHQKRP ASARQLQLSS PLKAPWAVVT APPGPVRDSR KQAGRGSVL PQPDTDFVFL QEGTSSAMQM PGTAAASTEY PVQAAQCSAP SWVVALPVK QETADAPEEW TAVTTFLTSS TLQSGFPSKA ADPDLSPVKQ EPPGPEEDGE EKKDDVSETT PAEEIGGVGT PVITEIFSLG GTRLRDAAEW LPRLHKLLAV NEKEYFTELQ LKEEVL Sequence without tag. The proposed

Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

MBD1

Alternative Name:

Mbd1 ([MBD1 Products](#))

Background:

Methyl-CpG-binding domain protein 1 (Methyl-CpG-binding protein MBD1),FUNCTION: Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting ATF7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 can also repress transcription from unmethylated promoters. {ECO:0000269|PubMed:15060159, ECO:0000269|PubMed:9774669}.

Molecular Weight:

70.0 kDa

Target Details

UniProt: [Q9Z2E2](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months