

Methyl-CpG-binding domain protein 1 (MBD1) Recombinant Protein | MBD1 recombinant protein

Recombinant Human Methyl-CpG-binding domain protein 1 (MBD1)

CATALOG # AAA116694	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Methyl-CpG-binding domain protein 1 (MBD1); Recombinant Human Methyl-CpG-binding domain protein 1 (MBD1); MBD1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-605aa; Full Length
Sequence	MAEDWLDCPA LGPGWKRREV FRKSGATCGR SDTYYSQPTG DRIRSKVELT RYLGPAACDLT LFDFKQGILC YPAPKAHPVA VASKKRKKPS RPAKTRKRQV GPQSGEVRKE APRDETKADT DTAPASFPAP GCCENCISF SGDGTQRQL KTLCKDCRAQ RIAFNREQRM FKRVGCGECA ACQVTEDCGA CSTCLLQLPH DVASGLFCKC ERRRCLRIVE RSRGCGVCRG CQTQEDCGHC PICLRPPRPG LRRQWKCVQR RCLRGKHARR KGGCDSKMAA RRRPGAQPLP PPPPSQSPEP TEPHPRALAP SPPAEFIYYC VDEDELQPYT NRRQNRKCGA CAACLRRMDC GRCDFCCDKP KFGGSNQKRQ KCRWRQCLQF AMKRLLPSVW SESEDGAGSP PPYRRRKRPS SARRHHLGPT LKPTLATRTA QPDHTQAPTK QEAGGGFVLP PPGTDLVFLR EGASSPVQVP GPVAASTEAL LQEAQCSGLS WVVALPQVKQ EKADTQDEWT PGTAVLTSPV LVPGCPSKAV DPGLPSVKQE PPDPEEDKEE NKDDASKLA PEEEAGGAGT PVITEIFSLG GTRFRDTAVW LPRSKDLKKP GARKQ
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for MBD1 recombinant protein	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. Five transcript variants of the MBD1 are generated by alternative splicing resulting in protein isoforms that contain one MBD domain, two to three cysteine-rich (CXXC) domains, and some differences in the COOH terminus. All five transcript variants repress transcription from methylated promoters; in addition, variants with three CXXC domains also repress unmethylated promoter activity. MBD1 and MBD2 map very close to each other on chromosome 18q21.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	323462147
NCBI GeneID	4152
NCBI Accession #	NP_001191065.1
NCBI GenBank Nucleotide #	NM_001204136.1

UniProt Accession #	Q9UIS9; O15248; O95241; Q7Z7B5; Q8N4W4; Q9UNZ6; A4UTZ0; B4DXJ5; E9PEC5; K7ELI2; K7EQZ4; K7ESN0
Molecular Weight	72,126 Da
NCBI Official Full Name	methyl-CpG-binding domain protein 1 isoform 6
NCBI Official Synonym Full Names	methyl-CpG binding domain protein 1
NCBI Official Symbol	MBD1
NCBI Official Synonym Symbols	RFT; PCM1; CXXC3
NCBI Protein Information	methyl-CpG-binding domain protein 1
UniProt Protein Name	Methyl-CpG-binding domain protein 1
UniProt Gene Name	MBD1
UniProt Synonym Gene Names	CXXC3; PCM1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mbd1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/116694>