

Recombinant Human MBD1 Protein, His-tagged

Cat. No. MBD1-2425H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MBD1 Protein (Met1-Leu216) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Leu216
Description	The protein encoded by this gene is a member of a family of nuclear proteins related by the presence of a methyl-CpG binding domain (MBD). These proteins are capable of binding specifically to methylated DNA, and some members can also repress transcription from methylated gene promoters. This protein contains multiple domains: MBD at the N-terminus that functions both in binding to methylated DNA and in protein interactions; several CXXC-type zinc finger domains that mediate binding to non-methylated CpG dinucleotides; transcriptional repression domain (TRD) at the C-terminus that is involved in transcription repression and in protein interactions. Numerous alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.6 kDa Accurate Molecular Mass: 28 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MBD1 methyl-CpG binding domain protein 1 [Homo sapiens (human)]
Official Symbol	MBD1
Synonyms	MBD1; methyl-CpG binding domain protein 1; methyl-CpG-binding domain protein 1; CXXC3; PCM1; CXXC-type zinc finger protein 3; protein containing methyl-CpG-binding domain 1; methyl-CpG binding domain protein 1 isoform PCM1; the regulator of fibroblast growth factor 2 (FGF-2) transcription; RFT;
Gene ID	4152

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mRNA Refseq	NM_001204136
Protein Refseq	NP_001191065
MIM	156535
UniProt ID	Q9UIS9

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