

MBD1-MBD recombinant protein

Recombinant MBD1-MBD protein

CATALOG #
AAA60370

HOST
E coli

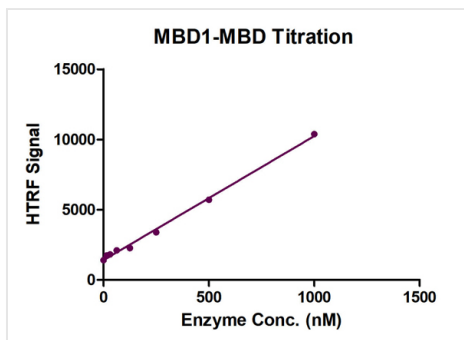
PRODUCT SYNONYMS

MBD1-MBD; Recombinant MBD1-MBD protein; Methyl-CpG-binding domain protein 1; CXXC3; PCM1; Protein Containing Methyl-CpG-Binding Domain 1; MBD1-MBD recombinant protein

PRODUCT SPECIFICATIONS

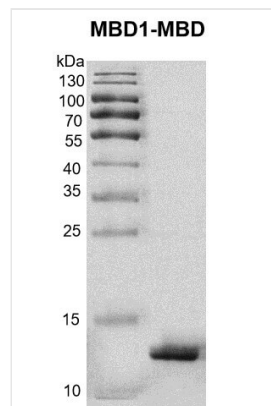
Host	E coli
Form/Format	Recombinant MBD1-MBD protein is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant MBD1-MBD protein that includes amino acids 1-70 of human MBD1 protein (accession number NP_056671.2) was expressed in E coli cells with an N-terminal 6xHis tag. The molecular weight of the protein is 10.11kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Application Data

HTRF assay for Recombinant MBD1-MBD protein activity 1uM substrate DNA (5'-Biotin-GCAGCCGG/5mC/GCGAATC-3') were incubated with different concentrations of MBD1-MBD protein in HTRF binding buffer contain 50mM HEPES-NaOH pH 7.4, 0.1%BSA for 1 hour, Then 10ul detection reagents contain anti-His antibody (1:100) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant MBD1-MBD protein 12.5% SDS-PAGE gel stained with Coomassie Blue. MW: 10.11kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for MBD1-MBD recombinant protein

MBD1 (Methyl-CpG-binding domain protein 1) is a 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 and isoform 2 can also repress transcription from unmethylated promoters.

NCBI AND UNIPROT INFORMATION

Molecular Weight

10.11kDa

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-mbd-recombinant-protein-e-coli/60370>