

MBD2-MBD recombinant protein

Recombinant MBD2-MBD protein

CATALOG #
AAA60371

HOST
E coli

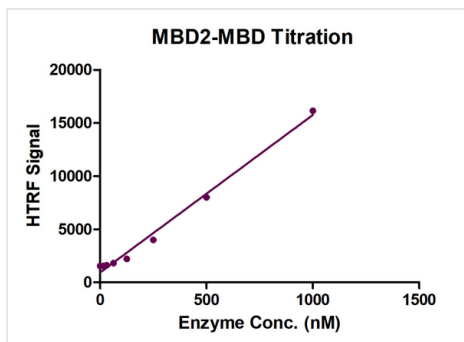
PRODUCT SYNONYMS

MBD2-MBD; Recombinant MBD2-MBD protein; Methyl-CpG -binding domain protein 2; CXXC3; PCM1; Protein Containing Methyl-CpG Binding Domain 1; MBD2-MBD recombinant protein

PRODUCT SPECIFICATIONS

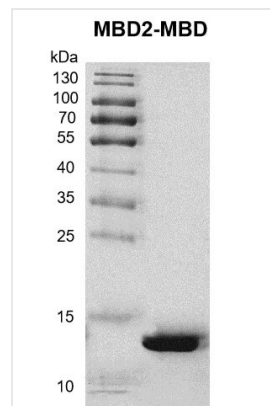
Host	E coli
Form/Format	Recombinant MBD2-MBD protein is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant MBD2-MBD protein that includes amino acids 140-219 of human MBD2 protein (accession number NP_003918.1) was expressed in E coli cells with an N-terminal 6xHis tag. The molecular weight of the protein is 11.19kDa.
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 MBD2-MBD activity 1uM substrate DNA (5'-Biotin-GCAGCCGG/5mC/GCGAATC-3') were incubated with different concentrations of MBD2-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

MBD2-MBD protein gel. 12.5% SDS-PAGE gel stained with Coomassie Blue. MW: 11.19kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for MBD2-MBD recombinant protein

MBD2 (Methyl-CpG-binding domain protein 2) is a transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Also binds hemimethylated DNA as well and recruits histone deacetylases and DNA methyltransferases to chromatin. Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin. Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression. May enhance the activation of some unmethylated cAMP-responsive promoters.

NCBI AND UNIPROT INFORMATION

Molecular Weight

11.19kDa

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/mbd2-mbd-recombinant-protein-e-coli/60371>