

# Recombinant Human Methyl-CpG Binding Domain Protein 3, His-tagged

**Cat. No.** MBD3-7179H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human MBD3 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW: 35.2 kDa.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>ProteinLength</b>	1-291aa
<b>Description</b>	Methyl-CpG-binding domain protein 3, also known as MBD3, is a member of the MBD family of transcriptional repressors. 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). However, unlike the other family members, MBD3 is not capable of binding to methylated DNA. The predicted MBD3 protein shares 71% and 94% identity with MBD2 (isoform 1) and mouse Mbd3. MBD3 is a subunit of the NuRD, a multisubunit complex containing nucleosome remodeling and histone deacetylase activities. MBD3 mediates the association of metastasis-associated protein 2 (MTA2) with the core histone deacetylase complex.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 1mM DTT, 1mM EDTA.
<b>Molecular Mass</b>	35.2 kDa (314aa) confirmed by MALDI-TOF

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**AA Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMERKRWE CPALPQGWER EEVPRRSGLS  
 AGHRDVFYYS PSGKKFRSKP QLARYLGGSM DLSTDFDRTG KMLMSKMNKS  
 RQRVRYDSSN QVKGKPDNT ALPVRQTASI FKQPVTKITN HPSNKVKSDP  
 QKAVDQPRQL FWEKKLSGLN AFDIAEELVK TMDLPKGLQG VGPGCTDETL  
 LSAIASALHT STMPITGQLS AAVEKNPGVW LNTTQPLCKA FMVTDEDIRK  
 QEELVQQVRK RLEEALMADM LAHVEELARD GEAPLDKACA EDDDEDEEEE  
 EEEEDPDPE MEHV

**Purity** >85% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [MBD3 methyl-CpG binding domain protein 3 \[ Homo sapiens \]](#)

**Official Symbol** MBD3

**Synonyms** MBD3; methyl-CpG binding domain protein 3;

**Gene ID** [8931](#)

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