

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

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

SPECIFICATION

Product Overview	Recombinant human MBD3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 35.2 kDa.
Species	Human
Source	E.coli
ProteinLength	1-291aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 1mM DTT, 1mM EDTA.
Molecular Mass	35.2 kDa (314aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMERKRWE CPALPQGWER EEVPRRSGLS AGHRDVFYYS PSGKKFRSKP QLARYLG GSM DLSTFDFRTG KMLMSKMNKS RQVRVYDSSN QVKGKPD LNT ALPVRQTASI FKQPVTKITN HPSNKKVSDP QKAVDQPRQL FWEKKLSGLN AFDIAEELVK TMDLPKGLQG VGP GCTDETL LSAIASALHT STMPITGQLS AAVEKNPGVW LNTTQPLCKA FMVTDEDIRK QEELVQQVRK RLEEALMADM LAHVEELARD GEAPLDKACA EDDDEEDEEE EEEEPDPE 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