

Recombinant Human MBD3, His-tagged

Cat. No. MBD3-28525TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 164-291 of Human MBD3 with N terminal His tag; Predicted MWt 15 kDa.
Species	Human
Source	E.coli
ProteinLength	164-291 a.a.
Description	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. 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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 86 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GLQGVGPGCTDETLLSAIASALHTSTMPITGQLSAAVEKN PGVWLNTTQPLCKAFM VTDEDIRKQEELVQQVRKRLEE ALMADMLAHVEELARDGEAPLDKACAEDDDEED EEEEEE EEPDPDPEMEHV
Sequence Similarities	Contains 1 MBD (methyl-CpG-binding) domain.

GENE INFORMATION

Gene Name	MBD3 methyl-CpG binding domain protein 3 [Homo sapiens]
Official Symbol	MBD3
Synonyms	MBD3; methyl-CpG binding domain protein 3; methyl-CpG-binding domain protein 3;
Gene ID	53615
mRNA Refseq	NM_003926
Protein Refseq	NP_003917
MIM	603573
Uniprot ID	O95983
Chromosome Location	19p13
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;

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Function

DNA binding; chromatin binding; protein binding;

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