



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### MBD1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00004152-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human MBD1 full-length ORF ( NP\_056671.2, 1 a.a. - 605 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MAEDWLDPCALGPGWKRREVFVKSGATCGRSDTY  
QSPTGDIRSKVELTRYLGPACDLTLDFKQKILCYPA  
PKAHPVAVASKKRKKPSRPAKTRKRQVGPQSGEVRK  
EAPRDETKADTDAPASFPAPGCCENCGISFSGDGTQ  
RQRLKTLCKDCRAQRIAFNREQRMFKRVGCGECAAC  
QVTEDCGACSTCLLQLPHDVASGLFCKCERRRCLRIV  
ERSRGCVCRCGQQTQEDCGHCPICLRPPRPLRRQ  
WKCVRRLRGLRGKHARRKGGCDSKMAARRRPGAQPL  
PPPPPSQSPEPTEPHPRALAPSPPAEFIYYCVDEDELQ  
PYTNRRQNRKCGACAACLRRMDCGRCDFCCDKPKF  
GGSNQKRQKCRWRQCLQFAMKRLPSVWSESEDGA  
GSPPPYRRRKRPSARRHHLGPTLKPTLATRTRTAQPDH  
TQAPTQKEAGGGFVLPPTDLVFLREGASSPVQVPG  
PVAASTEALLQEAQCSGLSWVVALPQVKQEKADTQD  
EWTPGTAVLTSPVLVPGCPSKAVDPGLPSVKQEPDP  
EEDKEENKDDASASKLAPEEEAGGAGTPVITEIFSLGGT  
RFRDTAVWLPRSKDLKPKGARKQ

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 93

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 4152

**Gene Symbol:** MBD1

**Gene Alias:** CXXC3, PCM1, RFT

**Gene Summary:** 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). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. Five transcript variants of the MBD1 are generated by alternative splicing resulting in protein isoforms that contain one MBD domain, two to three cysteine-rich (CXXC) domains, and some differences in the COOH terminus. All five transcript variants repress transcription from methylated promoters; in addition, variants with three CXXC domains also repress unmethylated promoter activity. MBD1 and MBD2 map very close to each other on chromosome 18q21. [provided by RefSeq]

**References:**

1. Examination of the specificity of DNA methylation profiling techniques towards 5-methylcytosine and 5-hydroxymethylcytosine. Jin SG, Kadam S, Pfeifer GP. *Nucleic Acids Res.* 2010 Apr 5. [Epub ahead of print]