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**Product Data Sheet**


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Product Name: MBD3 Human  
 Cat. No.: GP23890  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Methyl-CpG Binding Domain Protein 3; Methyl-CpG-Binding Domain Protein 3; Methyl-CpG-Binding Protein MBD3.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMERKRWE CPALPQGWER EEVPRRSGLS AGHRDVFYYS PSGKKFRSKP QLARYLGGSM DLSTDFDRTG KMLMSKMNKS RQRVRYDSSN QVKGKPD LNT ALPVRQTASI FKQPVTKITN HPSNKVKSDP QKAVDQPRQL FWEKKLSGLN AFDIAEELVK TMDLPKGLQG VGPGCTDETL LSAIASALHT STMPITGQLS AAVEKNPGVW LNTTQPLCKA FMVTDEDIRK QEELVQQVRK RLEEALMADM LAHVEELARD GEAPLDKACA EDDDEEDEEE EEEPPDPDPE MEHV.		
Formulation	The MBD3 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT, 1mM EDTA and 40% glycerol.		

**Introduction**

Methyl-CpG-binding domain protein 3 (MBD3), belongs to the MBD family of transcriptional repressors. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 includes a family of nuclear proteins related by the presence of a methyl-CpG binding domain (MBD) in each protein. Nevertheless, not like the other family members, MBD3 is not capable of binding to methylated DNA. MBD3 is a subunit of the NuRD, a multisubunit complex having nucleosome remodeling and histone deacetylase activities. The predicted MBD3 protein shares 71% and 94% identity with MBD2 (isoform 1) and mouse Mbd3. MBD3 mediates the association of metastasis-associated protein 2 (MTA2) with the core histone deacetylase complex.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MBD3 Human Recombinant produced in E. coli is a single polypeptide chain containing 314 amino acids (1-291) and having a molecular mass of 35.2 kDa. MBD3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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