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MBD3 Human

Catalog #:PRPS-1250

For research use only.

Description: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.

Synonyms: Methyl-CpG Binding Domain Protein 3, Methyl-CpG-Binding Domain Protein 3, Methyl-CpG-Binding Protein MBD3.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMERKRWE CPALPQGWER EEVPRRSGLS AGHRDVFYYS PSGKKFRSKP QLARYLGGSM DLSTFDFRTG KMLMSKMNKS RQRVRYDSSN QVKGKPDLNT ALPVRQTASI FKQPVTKITN HPSNKVKSDP QKAVDQPRQL FWEKKLSGLN AFDIAEELVK TMDLPKGLQG VGPGCTDETL LSAIASALHT STMPITGQLS AAVEKNPGVW LN

Purity: Greater than 85% as determined by SDS-PAGE.

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.

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

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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