

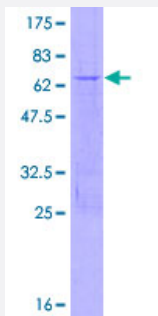
Full-Length

MBD3 (Human) Recombinant Protein (P01)

Catalog # H00053615-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MBD3 full-length ORF (NP_003917.1, 1 a.a. - 291 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MERKRWECPALPQGWEREVPRRSGLSAGHRDVFYYPSPGKKFRSKPQLARYLGGSMDLSTF
DFRTGKMLMSKMNKSRQVRVYDSSNQVKGKPDNLTPVRQTASIFKQPVTKITNHPSNKVKSD
PQKAVDQPRQLFWKKLSGLNAFDIAEELVKTMCLKGLQGVGPGCTDETLLSAIASALHTSTMP
ITGQLSAAVEKNPGVWLNTTQPLCKAFMVTDEDIRKQEELVQVVRKRLEEALMADMLAHVEELA
RDGEAPLDKACAEDDDDEDEEEEEEEEPDPDPPEMEHV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.2

Interspecies Antigen Sequence

Mouse (95); Rat (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MBD3

Entrez GeneID[53615](#)**GeneBank Accession#**[NM_003926.5](#)**Protein Accession#**[NP_003917.1](#)**Gene Name**

MBD3

Gene Alias

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Gene Description

methyl-CpG binding domain protein 3

Omim ID[603573](#)**Gene Ontology**[Hyperlink](#)**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). 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. [provided by RefSeq]

Other Designations

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