OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AR50571PU-S Human MBD3 (1-291, His-tag) - Purified

Alternate names: Methyl-CpG-binding domain protein 3

Quantity: 50 µg

Concentration: 0.25 mg/ml (determined by Bradford assay)

Background: Methyl-CpG-binding domain protein 3, also known as MBD3, is a member of the MBD family of transcriptional repressors. 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.

Uniprot ID: O95983

NCBI: NP_003917

GeneID: 53615

Species: Human

Source: E. coli

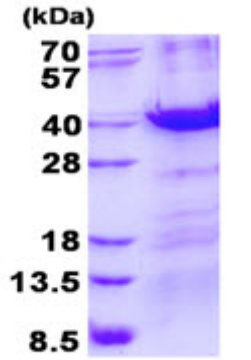
Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol,1mM DTT, 1mM EDTA

Description: Recombinant human MBD3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMERKRWE CPALPQGWER EEVPRRSGLS AGHRDVFYYS
PSGKKFRSKP QLARYLGGSM DLSTFDFRTG KMLMSKMNKS RQRVRYDSSN QVKGKPDLNT
ALPVRQTASI FKQPVTKITN HPSNKVKSDP QKAVDQPRQL FWEKKLSGLN AFDIAEELVK
TMDLPKGLQG VGPGCTDETL LSAIASALHT STMPITGQLS AAVEKNPGVW LNTTQPLCKA
FMVTDEDIRK QEELVQQVRK RLEEALMADM LAHVEELARD GEAPLDKACA EDDDEEDEEE
EEEEPDPDPE MEHV
Molecular weight: 35.2 kDa (314aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Nan X., et al. (1998) Nature. 393:386-389Hendrich B., et al. (1999) Mamm Genome. 10: 906-912.

Pictures:



15% SDS-PAGE (3ug)