

Datasheet for ABIN7549255
MBD3 Protein (AA 1-291) (His tag)



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Overview

Quantity:	1 mg
Target:	MBD3
Protein Characteristics:	AA 1-291
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MBD3 Protein expressed in mammalien cells.
Sequence:	MERKRWECPA LPQGWEEV PRRSGLSAGH RDVFYSPSG KKFRSKPQLA RYLGGSM DLS TFDFRTGKML MSKMNKSQR VRYDSSNQVK GKPDNLN TALP VRQTASIFKQ PVTKITNHPS NKVKSDPQKA VDQPRQLFWE KKL SGLNAFD IAEELVKTMD LPKGLQGVGP GCTDETL LSA IASALHTSTM PITGQLSAAV EKNPGVWLNT TQPLCKAFMV TDEDIRKQEE LVQQVRKRLE EALMADMLAH VEELARDGEA PLDKACAEDD DEEDEEEEE EPDPPEMEH V Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: MBD3

Alternative Name: MBD3 ([MBD3 Products](#))

Background: Methyl-CpG-binding domain protein 3 (Methyl-CpG-binding protein MBD3),FUNCTION: Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:16428440, PubMed:12124384, PubMed:16428440, PubMed:28977666). Acts as transcriptional repressor and plays a role in gene silencing (PubMed:10947852, PubMed:18644863). Does not bind to methylated DNA by itself (PubMed:12124384, PubMed:16428440). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed:24307175). Recruits histone deacetylases and DNA methyltransferases. {ECO:0000269|PubMed:10947852, ECO:0000269|PubMed:12124384, ECO:0000269|PubMed:16428440, ECO:0000269|PubMed:18644863, ECO:0000269|PubMed:23361464, ECO:0000269|PubMed:24307175, ECO:0000269|PubMed:28977666, ECO:0000269|PubMed:9774669}.

Molecular Weight: 32.8 kDa

UniProt: [O95983](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
