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MECP2 Human

Description:MECP2 Human Recombinant is expressed in 293 cells. The protein containing 486 amino acids (1-486a.a.) fused to an N-terminal Flag tag, having an Mw of 53.56kDa.

Catalog #:PRPS-219

Synonyms: Methyl CpG binding protein 2 (Rett syndrome), MeCp-2 protein, AUTSX3, MRX16, MRX79, MRXS13, MRXSL, PPMX, RTT, Mental retardation, X-linked 16, DKFZp686A24160.

For research use only.

Source: Mammalian system, 293 cells.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:
MDYKDDDDKMVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSA
EPAEAGKAETSEGSGSAPAVPEASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQRKSGRSAG
KYDVYLINPQGKAFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQKPPKKPKSPKAPG
TGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMPFQTSPGGKAEGGGATTSTQVM

Purity: Greater than 80% as determined by SDS-PAGE.

Formulation:
The MECP2 solution (0.45mg/ml) contains 50mM Tris, 135mM NaCl, 20% Glycerol, pH 7.5 and 200

Stability:
MECP2 althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent 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:
MECP2 is the key modificator of eukaryotic genomes and has a crucial part in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 form a family of nuclear proteins linked by the existence in each of a methyl-CpG binding domain (MBD). Each one of these proteins, with the exception of MBD3, can bind specifically to methylated DNA. In addition, MECP2, MBD1 and MBD2 can inhibit transcription from methylated gene promoters. Unlike other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is expendable in stem cells, but is vital for embryonic development. MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common reasons of mental retardation in females.

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