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32-4190: Recombinant Human Methyl CpG Binding Protein 2

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

Description

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

Product Info

Amount :	10 µg
Purification :	Greater than 80% as determined by SDS-PAGE.
Content :	The MECP2 solution (0.45mg/ml) contains 50mM Tris, 135mM NaCl, 20% Glycerol, pH 7.5 and 200µg/ml FLAG peptide.
Storage condition :	MECP2 although stable 4°C for 4 weeks, should be stored 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.
Amino Acid :	MDYKDDDDKMVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKA ETSEGSGSAPAVPEASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSKV ELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQKPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQV KRVLEKSPGKLLVKMPFQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAE AKKKAVKESSIRSVQETVLPIKKRKTRETVSIEVKEVVKPLLVSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSA SSPPKKEHHHHHHHSESPKAPVPLLPPLPPPPPEPESSEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEP AKTQPAVATAATAAEKYKHRGEGERKDIVSSSMPRPNREEPVDSRTPVTERVS.

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