9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MECP2 Human

Methyl CpG Binding Protein 2 Human Recombinant
RCP1343

Product Overview

Name	MECP2 Human
Description	
Methyl CpG Binding Protein 2 Human Recombinant	
Accession (Primary)	P51608
Synonyms	
Methyl CpG binding protein 2 (Rett syndrome), MeCp-2 protein, AUTSX3, MRX16, MRX79, MRXS13, MRXSL, PPMX, RTT, Mental retardation, X-linked 16, DKFZp686A24160.	
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.	
Source	
Mammalian system, 293 cells.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The MECP2 solution (0.45mg/ml) contains 50mM Tris, 135mM NaCl, 20% Glycerol, pH 7.5 and 200 µg/ml FLAG peptide.	
Stability	
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.	
Purity	
Greater than 80% as determined by SDS-PAGE.	
Amino acid sequence	

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MDYKDDDDK MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSA
EPAEAGKAETSEGSGSAPAVPEASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQRKSGRSAG
KYDVYLINPQGKAFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQKPPKKPKSPKAPGT
GRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMPFQTSPGGKAEGGGATTSTQVMV
IKRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKKAVKESSIRSVQETVLPIKKRKTRETVSIE
VKEVVKPLLVSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSESPKAPVP
LLPPLPPPPPEPESSEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAA
EKYKHRGEGERKDIVSSSMPRPNREEPVDSRTPVTERVS.

Precautions

MECP2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P51608)