Recombinant Human MECP2 protein, His-tagged

Cat. No. MECP2-66H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MECP2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	MECP2, also known as methyl-CpG-binding protein 2 isoform 1, is found in all cells in the body, including the brain, acting as a transcriptional repressor and activator. In the brain, it is found in high concentrations in neurons and is associated with maturation of the central nervous system (CNS) and in forming synaptic contacts.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	53.2kDa (492aa)50-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	MVAGMLGLRE EKSEDQDLQG LKDKPLKFKK VKKDKKEEKE GKHEPVQPSA HHSAEPAEAG KAETSEGSGS APAVPEASAS PKQRRSIIRDRGPMYDDPTL PEGWTRKLKQ RKSGRSAGKY DVYLINPQGK AFRSKVELIA YFEKVGDTSL DPNDFDFTVT GRGSPSRREQ KPPKKPKSPKAPGTGRGRGR PKGSGTTRPK AATSEGVQVK RVLEKSPGKL LVKMPFQTSP GGKAEGGGAT TSTQVMVIKR PGRKRKAEAD PQAIPKKRGRKPGSVVAAAA AEAKKKAVKE SSIRSVQETV LPIKKRKTRE TVSIEVKEVV KPLLVSTLGE KSGKGLKTCK SPGRKSKESS PKGRSSSASSPPKKEHHHHH HHSESPKAPV PLLPPLPPPP PEPESSEDPT SPPEPQDLSS SVCKEEKMPR GGSLESDGCP KEPAKTQPAV

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	ATAATAAEKYKHRGEGERKD IVSSSMPRPN REEPVDSRTP VTERVSHHHH HH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MECP2 methyl CpG binding protein 2 (Rett syndrome) [Homo sapiens]
Official Symbol	MECP2
Synonyms	MECP2; methyl CpG binding protein 2 (Rett syndrome); mental retardation, X linked 16 , mental retardation, X linked 79 , MRX16, MRX79, RTT; methyl-CpG-binding protein 2; meCp-2 protein; RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13; DKFZp686A24160;
Gene ID	4204
mRNA Refseq	NM_001110792
Protein Refseq	NP_001104262
MIM	300005

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UniProt ID	P51608
Chromosome Location	Xq28
Function	DNA binding; double-stranded methylated DNA binding; protein N-terminus binding; protein binding; protein domain specific binding; transcription corepressor activity;

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