

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 HHAEPAEAG KAETSEGS GS APAVPEASAS PKQRRSIIRDRGPMYDDPTL PEGWTRKLLKQ RKSGRSAGKY DVYLINPQ GK AFRSKVELIA YFEKVGDTSL DPNDFDFTVT GRGSPSRREQ KPPKKPKSPKAPGTGRGRGR PKGSGTTRPK AATSEGVQVK RVLEKSPGKL LVKMFPQTSP GGKAEGGGAT TSTQVMVIKR PGRKRKAEAD PQAIPKKRGRKPGSVVAAAA AEAKKKAVKE SSIRSVQETV LPIKKRKTRE TVSIEVKEVV KPLLVTSLGE KSGKGLKTCK SPGRKSKESS PKGRSSSASSPPKKEHHHHH HHSESPKAPV PLLPLPPPP PEPESEDPT SPPEPQDLSS SVCKEEKMPR GGSLESDGCP KEPAKTQPAV

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ATAATAAEKYKHRGEGERKD IVSSSMPPRN 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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