

Recombinant Human MECP2 Protein, His-tagged

Cat. No. MECP2-1549H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MECP2 (Met1-Ser486) was produced in HEK293 cells with C-terminal His tag.
Species	Human
Source	HEK293
ProteinLength	1-486 a.a.
Description	The MeCP2 helps regulate gene activity (expression) by modifying chromatin, the complex of DNA and protein that packages DNA into chromosomes. The MeCP2 protein is present in cells throughout the body, although it is particularly abundant in brain cells. In the brain, the MeCP2 protein likely plays a role in maintaining connections (synapses) between neurons, where cell-to-cell communication occurs. The alternative splicing of proteins is critical for normal communication between neurons and may also be necessary for the function of other types of brain cells.
Form	Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.
AA Sequence	MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAE PAEAGKAETS EGSGSAPAVPEASASPKQRRSIIIDRGPYDDPTLPEGWTRKLLKQ RKSGRSAGKYDVYLINPQGK AFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPS RREQKPPKPKSPKAPGTGRGRGRPKGSG TTRPKAATSEGVQVKRVLEKSPGKLL VKMPFQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEAD PQAIPKKRGRKPGSVV AAAAAEAKKKAVKESSIRSVQETVLPKIKRKTRETVSIEVKEVVKPLLV STLGEKSGK

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GLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSESPKAPVPLLPLPPPP
 PEPESSEDPTSPPEPQDLSSSVCKEEKMPRGGSLSDGCPKEPAKTQPAVATAATA
 AEKYKHRGE GERKDIVSSSMRPNREEPVDSRTPVTERVSDHHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.
 Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.
 Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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](#)

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mRNA Refseq	NM_001110792
Protein Refseq	NP_001104262
MIM	300005
UniProt ID	P51608

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