

Recombinant Human MECP2 protein, GST-tagged

Cat. No. MECP2-274H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MECP2(C-term-350aa) fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	C-term-350aa
Description	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensible in stem cells, but is essential 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 causes of mental retardation in females.
Form	1M PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH8.0), 100 mM GSH and 1% Triton X-100, 15% glycerol.
AA Sequence	LIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SGTTRPKAATSEGVQVKRV LEKSPGKLLVKMPFQTSPGGKAEGGGATTSTQVMVI
 KRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKKA VKESSIRSVQETVLPICK
 RKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPP
 KKEHHHHHHHSESPKAPVLLPPLPPPPPEPESEDPTSPPEPQDLSSSVCKEEKM
 PRGGSLESDGCPKEPAKTQ PAVATAATAAEKYKHRGEGERKDIVSSSMRPNREE
 PVDSRTPVTERVS

Stability

Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months. Avoid freeze thaw cycles.

Shipping

The product is shipped with ice packs. Upon receipt, store it immediately at -20 centigrade to -80 centigrade.

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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