Recombinant Human MECP2, GST-tagged

Cat. No. MECP2-273H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MECP2 (78-162 a.a.) fused with GST-tag at N-terminal, was expressed in E. coli expression system..
Species	Human
Source	E.coli
ProteinLength	78-162 a.a.
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.
Molecular Mass	36 kDa
Applications	Useful for the study of DNA binding, screening inhibitors, and selectivity profiling.

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Formulated in	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.2 mM KCl, 18 mM glutathione, 10% glycerol and 3 mM DTT.
Storage	>6 months at –80°C
OfficialSymbol	MECP2

GENE INFORMATION

Gene Name	MECP2 methyl CpG binding protein 2 (Rett syndrome) [Homo sapiens]
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
Gene ID	4204
mRNA Refseq	NM_004992
Protein Refseq	NP_004983
MIM	300005
UniProt ID	P51608
Chromosome Location	Xq28
Pathway	SIDS Susceptibility Pathways
Function	DNA binding; double-stranded methylated DNA binding; protein N-terminus binding; protein binding; protein domain specific binding

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