



# Recombinant Human Methyl-CpG-binding protein 2 (MECP2)

<b>Product Code</b>	CSB-MP013638HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P51608
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MVAGMLGLRE EKSEDQDLQG LKDKPLKFKK VKKDKKEEKE GKHEPVQPSA HNSAEPAEAG KAETSEGS GS APAVPEASAS PKQRRSIIRD RGPMYDDPTL PEGWTRKLLKQ RKSGRSAGKY DVYLINPQ GK AFRSKVELIA YFEKVGDTSL DPNDFDFTVT GRGSPSRREQ KPPKKPKSPK APGTGRGRGR PKGSGTTRPK AATSEGVQVK RVLEKSPGKL LVKMPFQTSP GGKAEGGGAT TSTQVMVIKR PGRKRKAEAD PQAIPKKRGR KPGSVVAAAA AEAKKKAVKE SSIRSVQETV LPIKKRKTRE TVSIEVKEVV KPLLSTLGE KSGKGLKTCK SPGRKSKESS PKGRSSSASS PPKKEHHHHH HHSESPKAPV PLLPPLPPP PEPESEDPT SPPEPQDLSS SVCKEEKMPR GGSLESDGCP KEPAKTQPAV ATAATAAEKY KHRGEGERKD IVSSSMRPN REEPVDSRTP VTERVS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	MECP2
<b>Protein Names</b>	Recommended name: Methyl-CpG-binding protein 2 Short name= MeCp-2 protein Short name= MeCp2
<b>Expression Region</b>	1-486
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.