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Datasheet for ABIN1945397

**MECP2 Protein (AA 1-486) (His tag)**

## Overview

Quantity:	50 µg
Target:	MECP2
Protein Characteristics:	AA 1-486
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MECP2 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Methyl-CpG-Binding Protein 2/MECP2 (C-6His)
Sequence:	<p>MVAGMLGLRE EKSEDQLQG LKDKPLKFKK VKKDKKEEKE GKHEPVQPSA HHSAEPAEAG KAETSESGSGS APAVPEASAS PKQRRSIIRD RGPMYDDPTL PEGWTRKLKQ RKSGRSAGKY DVYLINPQGK AFRSKVELIA YFEKVGDTSL DPNDFDFTVT GRGSPSRREQ KPPKKPKSPK APGTGRGRGR PKGSGTTRPK AATSEGVQVK RVLEKSPGKL LVKMPFQTSP GGKAEGGGAT TSTQVMVIKR PGRKRKAEAD PQAIPKKRGR KPGSVVAAAA AEAKKKAVKE SSIRSVQETV LPIKKRKTRE TVSIEVKEVV KPLLVLSTLGE KSGKGLKTCK SPGRKSKESS PKGRSSSASS PPKKEHHHHH HHSESPKAPV PLLPLPPPP PEPESEDPT SPPEPQDLSS SVCKEEKMPR GGSLESDGCP KEPAKTQPAV ATAATAAEKY KHRGEGERKD IVSSSMRPNN REEPVDSRTP VTERVSDHH HHHH</p>
Characteristics:	Recombinant Human MECP2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (AA 1-486) of Human MECP2 fused with a polyhistidine tag at the C-terminus.

## Product Details

Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	MECP2
Alternative Name:	MECP2 ( <a href="#">MECP2 Products</a> )
Background:	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.
Molecular Weight:	53.5 kDa
UniProt:	<a href="#">P51608</a>
Pathways:	<a href="#">Inositol Metabolic Process</a> , <a href="#">Chromatin Binding</a> , <a href="#">Synaptic Membrane</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH <sub>2</sub> O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.