

Recombinant Human MBP, His-tagged

Cat. No. MBP-2348H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MBP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	220aa
Description	MBP is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,

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Molecular Mass	23.9 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGNHAGK RELNAEKAST NSETNRGESE KKRNLGELSR TTSEDNEVFG EADANQNNGT SSQDTAVTDS KRTADPKNAW QDAHPADPGS RPHLIRLFSR DAPGREDNTF KDRPSESEDEL QTIQEDSAAT SESLDVMASQ KRPSQRHGSK YLATASTMDH ARHGFLPRHR DTGILDSIGR FFGGDRGAPK RGSGKVSSEE
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	MBP myelin basic protein [Homo sapiens]
Official Symbol	MBP
Synonyms	MBP; myelin basic protein; Golli-MBP; myelin basic protein; myelin A1 protein; myelin membrane encephalitogenic protein; MGC99675;
Gene ID	4155
mRNA Refseq	NM_001025081
Protein Refseq	NP_001020252

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MIM	159430
UniProt ID	P02686
Chromosome Location	18q23
Pathway	MAPK Cascade, organism-specific biosystem;
Function	structural constituent of myelin sheath;

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