

## Recombinant Cattle MBP Protein, His-tagged

Cat. No. MBP-2426C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Cattle MBP Protein (Ala135-Arg303) with a N-His tag was expressed in E. coli.
<b>Species</b>	Cattle
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala135-Arg303

### Description

The protein encoded by the classic MBP gene 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.

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<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 22.0 kDa Accurate Molecular Mass: 22 kDa
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).
<b>Purity</b>	> 95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	MBP myelin basic protein [ <i>Bos taurus</i> (cattle) ]
<b>Official Symbol</b>	MBP

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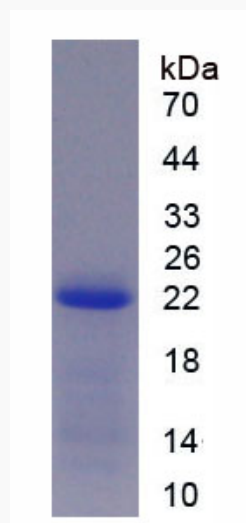
**Synonyms** MBP; myelin basic protein; myelin basic protein  
20 kDa microtubule-stabilizing protein  
microtubule-stabilizing protein  
myelin A1 protein

**Gene ID** [618684](#)

**mRNA Refseq** [NM\\_001206674](#)

**Protein Refseq** [NP\\_001193603](#)

**UniProt ID** [Q3SZ92](#)



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