

PRODUCT INFORMATION

MBP Target

Myelin A1 protein; Myelin membrane **Synonyms**

encephalitogenic protein

Recombinant human MBP Protein with N-terminal **Description**

Human Fc tag

Delivery In Stock **Uniprot ID** P02686 **Expression Host** HFK293

N-Human Fc Tag Tag

Molecular

Purity

Background

hFc(Glu99-Ala330) MBP(Met1-Arg304) Characterization

The protein has a predicted molecular mass of

59.3 kDa after removal of the signal peptide. The apparent molecular mass of hFc-MBP is **Molecular Weight**

approximately 70-100 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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

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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.

[provided by RefSeq, Jul 2008]

Usage Research use only Conjugate Unconjugated

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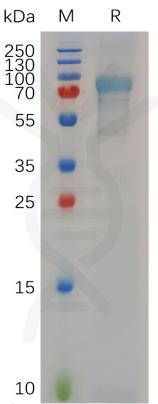


Figure 1. Human MBP, hFc Tag on SDS-PAGE under reducing condition.

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