

Recombinant Human MBP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MBP-557H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MBP MS Standard C13 and N15-labeled recombinant protein (NP_001020263) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	17.3 kDa

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AA Sequence	MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKR GSGKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGAEG QRPFGFYGGGRASDYKSAHKGFGKVDAQGTLSKIFKLGGGRDSRSGSPMARRTRTRP LEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MBP myelin basic protein [Homo sapiens (human)]
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_001025092
Protein Refseq	NP_001020263

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MIM	159430
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UniProt ID	P02686
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