

MBP Protein, Mouse (His)

Cat. No.:	HY-P77995
Synonyms:	MBP; Hmbpr; MGC99675; mld; Myelin A1 ; myelin basic; shi
Species:	Mouse
Source:	E. coli
Accession:	P04370 (M1-R250)
Gene ID:	17196
Molecular Weight:	30-40 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of PBS, 1 mM DTT, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background

The classic group of MBP isoforms (isoform 4-isoform 13) stands as the predominant protein constituents alongside PLP in the myelin membrane of the central nervous system (CNS), playing vital roles in both the formation and stabilization of the myelin sheath. Conversely, the non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may be particularly involved in the early stages of brain development, preceding myelination. These isoforms potentially function as components of transcriptional complexes, contributing to intricate cellular processes. Moreover, members of the non-classic group may participate in signaling pathways within T-cells and neural cells. The extensive repertoire of isomers resulting from differential splicing events and optional post-translational modifications adds complexity, with each isomer potentially serving specialized functions. The MBP protein forms homodimers, further contributing to its diverse functional roles.

Caution: Product has not been fully validated for medical applications. For research use only.

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