

Native Mouse Myelin basic protein

Cat. No. MBP-6949M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified from mouse central nervous system tissue.
Species	Mouse
Source	Mouse Central Nervous System
Description	MBP is a peripheral membrane protein, and its interaction with lipids is generally believed to be critical for the formation and stability of the multilamellar myelin sheath. It has been identified as a Ca²⁺-calmodulin regulated agent for actin polymerization, tropomyosin and actomyosin function, tubulin stabilization, and clathrin assembly. MBP is generally considered to be the antigen responsible for autoimmunity in multiple sclerosis (MS) and it has the capability to induce experimental allergic encephalomyelitis (EAE). MBP is also an endogenous inhibitor of the high-affinity cannabinoid binding site in the brain and a substrate for numerous protein kinases (MAPK, serine/threonine kinase, protein kinase C). MBP is also suggested to be involved in intracellular signalling and as cytoskeletal components.
Form	Lyophilized. Essentially salt-free.
Purity	≥95% (SDS-PAGE; immunoblot)
Stability	Stable for at least 1 year when stored at +4 centigrade. Reconstituted protein is stable for at least six months at -20 centigrade and for at least 24h at +37 centigrade in aqueous solution.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Short Term Storage: +4 centigrade; Long Term Storage: -20 centigrade.
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Reconstitution	Reconstitute with distilled water.
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GENE INFORMATION

Gene Name	Mbp myelin basic protein [Mus musculus]
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Official Symbol	MBP
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Synonyms	MBP; myelin basic protein; Golli-Mbp; myelin basic protein; shiverer; myelin deficient; myelin A1 protein; mld; shi; Hmbpr; C76307; R75289; golli-mbp;
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Gene ID	17196
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mRNA Refseq	NM_001025245
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Protein Refseq	NP_001020416
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Pathway	MAPK Cascade, organism-specific biosystem;
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Function	protease binding; structural constituent of myelin sheath;
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