

Product Information

MBP, GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5205**
Storage Temperature -70°C

Product Description

MBP or Myelin Basic Protein forms dimers across the cytoplasmic apposition during the formation of myelin. The region of the protein involved in folding, polymerization, and substrate specificities is conserved in various species, and it may have a specialized role in protein-lipid interactions in the myelin membrane.¹ MBP is an efficient substrate for numerous protein kinases and shares similarities with the MARCKS protein in terms of having extended conformations regulated by their environment, N-terminal modifications, a dual nature of interactions with lipids, and binding to actin and Ca^{2+} -calmodulin.²

Recombinant, full-length, human MBP was expressed in *E. coli* cells using a N-terminal GST tag. The gene accession number is NM_001025090. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~36 kDa

Purity: 65–95% (SDS-PAGE, see Figure 1)

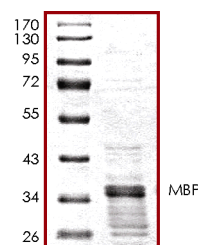
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
65–95% (densitometry)



References

1. Chapman, B.E. et al., Conformation of myelin basic protein and its role in myelin formation. *Adv. Exp. Med. Biol.*, **100**, 207-20 (1978).
2. Harauz, G. et al., Analogous structural motifs in myelin basic protein and in MARCKS. *Mol. Cell Biochem.*, **209**, 155-163 (2000).

FF,DKF,MAM 10/11-1