Myelin Basic Protein, dephosphorylated

Catalog No: 31314
Expressed In: Bovine
Quantity: 5000 µg
Concentration: 5 µg/µl
Source: Bovine

Buffer Contents: 5 mg of MBP (18.5 kDa) at a concentration of 5 mg/ml in 10 mM MOPS (pH 7.0), 0.05% sodium azide, 0.02 µg/ml inactive lambda phosphatase, 0.18 mM MnCl₂, 5mM EDTA.

Protein Details: Myelin Basic Protein is purified from bovine brain using SP-Sepharose™ FPLC and dephosphorylated using lambda phosphatase. Lambda phosphatase is then inactivated by the addition of EDTA and heat treatment (65°C for 1 hour). The estimated purity is > 95% based on Coomasie staining.

Application Notes: Myelin Basic Protein, MBP, is useful as a substrate for in vitro kinase assays, including MAPK, PKA, PKC cyclin-dependent and calmodulin-dependent protein kinases.

Storage and Guarantee: Lyophilized proteins can be stored at -20°C or -80°C, preferably desiccated. Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is guaranteed for 6 months from date of receipt.

This product is for research use only and is not for use in diagnostic procedures.

MBP protein kinase assay.
Myelin Basic Protein was tested in an in vitro kinase assay by incubation with (Lane 1) or without MAPK2 (Lane 2), followed by Western blot detection at 1 µg / lane using an MBP phospho Thr98 antibody. To the right of the Western blot is a lane from a Coomassie-stained SDS-PAGE gel on which 4 µg of purified MBP was loaded.