

32-13312: MBP E.Coli, His

Alternative Name : Maltose-binding periplasmic protein, MBP, MMBP, Maltodextrin-binding protein, maIE, b4034, JW3994.

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

Maltose Binding Protein is a member of the maltose/maltodextrin system of E.Coli, which is accountable for the uptake and efficient catabolism of maltodextrins. The maltose/maltodextrin is a complex regulatory and transport system involving many proteins and protein complexes. MBP elevates the yield of its fusion partner in many cases and is often able to promote the solubility of polypeptides to which it is fused.

Recombinant E.Coli MBP produced in E.Coli is a single, non-glycosylated polypeptide chain containing 410 amino acids (27-392 a.a) and having a molecular mass of 44.9kDa. MBP is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : MBP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMKIEEGK LVIWINGDKG YNGLAEVGKK FEKDTGIKVT VEHPDKLEEK
FPQVAATGDG PDIIFWAHDR FGGYAQSGLL AEITPDKAFQ DKLYPFTWDA VRYNGKLIAY PIAVEALSLI
YNKDLLPNPP KWEEIPALD KELKAKGKSA LMFNLQEPYF TWPLIADGG YAFKYENGY DIKDVGVDNA
GAKAGLTFV DLIKNKHMNA DTDYSIAEAA FNKGETAMTI NGPWAWSNID TSKVNYGVTV LPTFKGQPSK
PFVGLSAGI NAASPNKELA KEFLENYLLT DEGLEAVNKD KPLGAVALKS YEEELAKDPR IAATMENAQK
GEIMPNIQPM SAFWYAVRTA VINAASGRQT VDEALKDAQT NSSSNNNNNN NNNNLGIEGR.