
Product Data Sheet

Product Name: MBP E.Coli, His
 Cat. No.: GP23895
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Maltose-binding periplasmic protein; MBP; MMBP; Maltodextrin-binding protein; malE; b4034; JW3994.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKIEEGK LVIWINGDKG YNGLAEVGGK FEKDTGIKVT VEHPDKLEEK FPQVAATGDG PDIIFWAHDR FGGYAQSGLL AEITPKAFQ DKLYPFTWDA VRYNGKLIAY PIAVEALSLI YNKDLLPNPP KTWEEIPALD KELKAKGKSA LMFNLQEPYF TWPLIAADGG YAFKYENGGY DIKDVGVDNA GAKAGLTFLV DLIKNKHMNA DTDYSIAEAA FNKGETAMTI NGPWAWSNID TSKVNYGVTV LPTFKGQPSK PFVGVLSAGI NAASPNKELA KEFLENLLT DEGLEAVNKD KPLGAVALKS YEEELAKDPR IAATMENAQK GEIMPNIPQM SAFWYAVRTA VINAASGRQT VDEALKDAQT NSSSNNNNNN NNNNLGIEGR.		
Formulation	MBP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.		

Introduction

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.

Stability

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.

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

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Background

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.

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