

# Recombinant E.coli Maltose Binding Protein/MBP protein

Catalog Number: MBP0801

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

27-392aa

**UniProt No.**

P0AEX9

**NCBI Accession No.**

NP\_418458.1

**Alternative Names**

Maltose binding protein, malE, E.coli MBP, Escherichia coli MBP, MBP, Maltodextrin-binding protein, MMBP

## PRODUCT SPECIFICATION

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**Molecular Weight**

42 kDa (387aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0)

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

Non-Tagged

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

MBP (Maltose Binding Protein) is a protein related with the maltose/maltodextrin system of Escherichia coli, which is responsible for the uptake and efficient catabolism of maltodextrins. It is a complex regulatory and transport system involving many proteins and protein complexes. MBP has been used to increase the yield of its fusion partner in many cases. In addition, MBP is often able to promote the solubility of polypeptides to which it is fused. Recombinant MBP was expressed in E. coli and purified by conventional chromatography techniques.

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## Amino acid Sequence

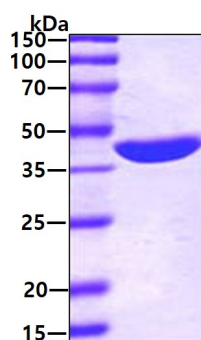
MKIEEGKLV I WINGDKGYNG LAEVGKKFEK DTGIKVTVEH PDKLEEKFPQ VAATGDGPDI IFWAHDFRGG YAQSGLLAEI  
TPDKAFQDKL YPFTWDAVRY NGKLIAYPIA VEALSLIYNK DLLPNPPKTW EEIPALDKEL KAKGKSALMF NLQEPYFTWP  
LIAADGGYAF KYENKDYDIK DVGVDNAGAK AGLTFLVDLI KNKHMNADTD YSIAEAAFNK GETAMTINGP WAWSNIDTSK  
VNYGVTVLPT FKGQPSKPFV GVLSAGINAA SPNKELAKEF LENYLLTDEG LEAVNKDKPL GAVALKSYEE ELAKDPRIAA  
TMENAQKGEI MPNIPQMSAF WYAVRTAVIN AASGRQTVDE ALKDAQT<NSS SNNNNNNNNN NLGIEGR>

## General References

Fox JD., et al. (2001). Protein Sci. 10(3): 622-30.  
Riggs P., et al. (2000). Mol. Biotechnol. 15: 51-63.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.