

# Recombinant E.coli Maltose Binding Protein/MBP protein

Catalog Number: ATGP3346

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

27-396aa

**UniProt No.**

P0AEX9

**NCBI Accession No.**

NP\_418458.1

**Alternative Names**

ZCSL3, MMBP, MBP, Maltose binding protein, Maltodextrin-binding protein, malJ, malE, JW3994, JJJ3, Escherichia coli MBP, ECK4026, E.coli MBP, DPH4, Cytoplasmic maltose-binding protein

## PRODUCT SPECIFICATION

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**Molecular Weight**

40.8 kDa (371aa)

**Concentration**

1mg/ml (determined by absorbance at 280nm)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**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 also as known as 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

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chromatography techniques.

## Amino acid Sequence

MKIEEGKLV I WINGDKGYNG LAEVGKKFEK DTGIKVTVEH PDKLEEKFPQ VAATGDGPDI IFWAHDRFGG YAQSGLLAEI  
TPDKAFQDKL YPFTWDAVRY NGKLIAYPIA VEALSLIYNK DLLPNPPKTW EEIPALDKEL KAKGKSALMF NLQEPYFTWP  
LIAADGGYAF KYENGYDIK DVGVDNAGAK AGLTFLVDLI KNKHMNADTD YSIAEAAFNK GETAMTINGP WAWSNIDTSK  
VNYGVTVLPT FKGQPSKPFV GVLSAGINAA SPNKELAKEF LENYLLTDEG LEAVNKDKPL GAVALKSYEE ELAKDPRIAA  
TMENAQKGEI MPNIPQMSAF WYAVRTAVIN AASGRQTVDE ALKDAQTRIT K

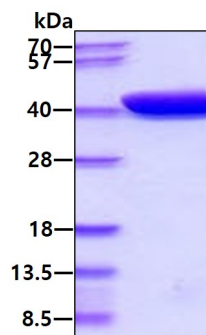
## General References

Fox JD., et al. (2001) Protein Sci. 10(3): 622-30.

Riggs P., et al. (2000) Mol. Biotechnol. 15(1): 51-63.

## DATA

### SDS-PAGE



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