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# Recombinant E.coli Maltose Binding Protein/MBP protein

Catalog Number: ATGP3346

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

27-396aa

#### UniProt No.

POAFX9

#### **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**

# **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**

> 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**

# **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**

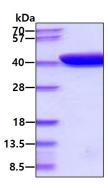
MKIEEGKLVI WINGDKGYNG LAEVGKKFEK DTGIKVTVEH PDKLEEKFPQ VAATGDGPDI IFWAHDRFGG YAQSGLLAEI TPDKAFQDKL YPFTWDAVRY NGKLIAYPIA VEALSLIYNK DLLPNPPKTW EEIPALDKEL KAKGKSALMF NLQEPYFTWP LIAADGGYAF KYENGKYDIK DVGVDNAGAK AGLTFLVDLI KNKHMNADTD YSIAEAAFNK GETAMTINGP WAWSNIDTSK VNYGVTVLPT FKGQPSKPFV GVLSAGINAA SPNKELAKEF LENYLLTDEG LEAVNKDKPL GAVALKSYEE ELAKDPRIAA TMENAQKGEI MPNIPOMSAF WYAVRTAVIN AASGROTVDE ALKDAOTRIT 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.

