## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

27-392aa
UniProt No.
POAEX9
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

## Molecular Weight

42 kDa (387aa)

## Concentration

1mg/ml (determined by Bradford assay)

## Formulation

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

## Purity

> 95\% by SDS-PAGE

## Tag

Non-Tagged

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## 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.

## 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 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.

