Recombinant E.coli Maltose Binding Protein/MBP protein

Catalog Number: ATGP2171

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-392aa

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

Molecular Weight
44.9 kDa (410aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

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
Cytoplasmic maltose-binding protein, also known as MBP, 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 E. coli MBP protein, fused to His-tag at N-terminus, was expressed

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in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

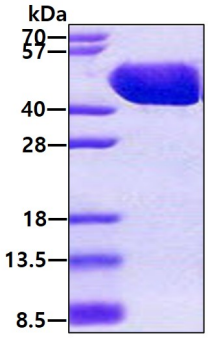
<MGSSHHHHHH SSGLVPRGSH MGS>MKIEEGK LVIWINGDKG YNGLAEVGKK FEKDTGIKVT VEHPDKLEEK FPQVAATGDG PDIIFWAHDR FGGYAQSGLL AEITPDKAFQ DKLYPFTWDA VRYNGKLIAY PIAVEALSLI YNKDLLPNPP KTWEEIPALD KELKAKGKSA LMFNLQEPYF TWPLIAADGG YAFKYENGKY DIKDVGVDNA GAKAGLTFLV DLIKNKHMNA DTDYSIAEAA FNKGETAMTI NGPWAWSNID TSKVNYGVTV LPTFKGQPSK PFVGVLSAGI NAASPNKELA KEFLENYLLT DEGLEAVNKD KPLGAVALKS YEEELAKDPR IAATMENAQK GEIMPNIPQM SAFWYAVRTA VINAASGRQT VDEALKDAQT<NSSSNNNNNN NNNNLGIEGR>

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.