

Recombinant E.coli MalE, Maltose Binding Protein, His-tagged

Cat. No. malE-217E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MBP, 1-387aa, <i>E.coli</i> , His tag, <i>E.coli</i>
Species	<i>E.coli</i>
Source	<i>E.coli</i>
Protein Length	1-387 a.a.
Description	Cytoplasmic maltose-binding protein, also known as MBP, is a protein related with the maltose/maltodextrin system of <i>Escherichia coli</i> , 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 <i>E.coli</i> MBP protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	44.9kDa (410aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKIEEGK LVIWINGDKG YNGLAEVGKK FEKDTGIKVT VEHPDKLEEK FPQVAATGDG PDIIFWAHDR FGGYAQSGLL AEITPDKAFQ DKLYPFTWDA VRYNGKLIAY PIAVEALSLI YNKDLLPNPP KTWEEIPALD KELKAKGKSA LMFNLQEPYF TWPLIAADGG YAFKYENGKY

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DIKDVGV DNA GAKAGLTFLV DLIKNKHMNA DTDYSIAEAA FNKGETAMTI
NGPWAWSNID TSKVNYGVTV LPTFKGQPSK PFVGVLSAGI NAASPNKELA
KEFLENYLLT DEGLEAVNKD KPLGAVALKS YEEELAKDPR IAATMENAQK
GEIMPNIPQM SAFWYAVRTA VINAASGRQT VDEALKDAQT NSSSNNNNNN
NNNNLGIEGR

Purity	> 95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

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