

MBP recombinant protein

MBP, 27-392aa, E Coli, His tag, E Coli

CATALOG # AAA48833	HOST E Coli	APPLICATIONS SDS-Page
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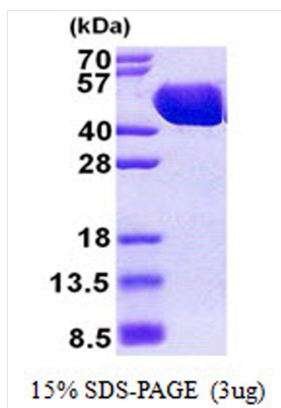
PRODUCT SYNONYMS

MBP; 27-392aa; E Coli; His tag; Cytoplasmic maltose-binding protein; DPH4; JJJ3; ZCSL3; MBP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMKIEEGK LVIWINGDKG YNGLAEVGKK FEKDTGIKVT VEHPDKLEEK FPQVAATGDG PDIIFWAHDR FGGYAQSGLL AEITPDKAFQ DKLYPFTWDA VRYNGKLIAY PIAVEALSLI YNKDLLPNPP KTWEEIPALD KELKAKGKSA LMFNLQEPYF TWPLIAADGG YAFKYENGKY DIKDVGVDNA GAKAGLTLV DLIKNKHMNA DTDYSIAEAA FNKGETAMTI NGPWAWSNID TSKVNYGVTV LPTFKGQPSK PFVGVLSAGI NAASPNKELA KEFLENYLLT DEGLEAVNKD KPLGAVALKS YEEELAKDPR IAATMENAQK GEIMPNIQPM SAFWYAVRTA VINAASGRQT VDEALKDAQT NSSNNNNNNN NNNNLGIEGR
Sequence Length	396
Applicable Applications for MBP recombinant protein	SDS-PAGE
Domain	1-387aa
Tag	His-Tag
Preparation and Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MBP recombinant protein	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 in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for MBP recombinant protein	Fusion Tag & Detection
References	Fox JD., et al. (2001) Protein Sci. 10 (3):622-30; Riggs P., et al. (2000) Mol Biotechnol. 15:51-63.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131860
NCBI GeneID	948538
NCBI Accession #	NP_418458.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0AEX9 ; P02928 ; Q2M6S0
Molecular Weight	44.9kDa (410aa), confirmed by MALDI-TOF
NCBI Official Full Name	maltose transporter subunit
NCBI Official Symbol	malE
NCBI Official Synonym Symbols	ECK4026; JW3994; malJ
NCBI Protein Information	maltose transporter subunit
UniProt Protein Name	Maltose-binding periplasmic protein
UniProt Gene Name	malE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.