

MBP, 1-387aa, E.coli, His tag, E.coli

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3th Edition

Synonyms:Cytoplasmic maltose-binding protein, DPH4, JJJ3, ZCSL3

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

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMKIEEGKLVWINGDKGYNGLAEVGGKFEKDTGKIKVVEHPDKLEEKFPQVA
ATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTW
EEIPALDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENKDYDIKDVGVNDNAGAKAGLTFVLDLIKHKHMNA
DTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENY
LLTDEGLEAVNKDKPLGAVALKSYEEELAKDPRIAATMENAQKGEIMPNIQMSAFWYAVRTAVINAASGRQTVDEA
LKDAQTNSSNNNNNNNNNLGIEGR

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.