

MBP/MaE Protein, E.coli (Myc, His)

Cat. No.:	HY-P71499
Synonyms:	malE; b4034; JW3994; Maltose/maltodextrin-binding periplasmic protein; MMBP; Maltodextrin-binding protein; Maltose-binding protein; MBP
Species:	E.coli
Source:	E. coli
Accession:	P0AEX9 (K27-K396)
Gene ID:	948538
Molecular Weight:	Approximately 48.2 kDa

PROPERTIES

AA Sequence	<pre> K I E E G K L V I W I N G D K G Y N G L A E V G K K F E K D T G I K V T V E H P D K L E E K F P Q V A A T G D G P D I I F W A H D R F G G Y A Q S G L L A E I T P D K A F Q D K L Y P F T W D A V R Y N G K L I A Y P I A V E A L S L I Y N K D L L P N P P K T W E E I P A L D K E L K A K G K S A L M F N L Q E P Y F T W P L I A A D G G Y A F K Y E N G K Y D I K D V G V D N A G A K A G L T F L V D L I K N K H M N A D T D Y S I A E A A F N K G E T A M T I N G P W A W S N I D T S K V N Y G V T V L P T F K G Q P S K P F V G V L S A G I N A A S P N K E L A K E F L E N Y L L T D E G L E A V N K D K P L G A V A L K S Y E E E L A K D P R I A A T M E N A Q K G E I M P N I P Q M S A F W Y A V R T A V I N A A S G R Q T V D E A L K D A Q T R I T K </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MBP/MaE protein functions as a crucial component of the ABC transporter complex MalEFGK, specializing in the active import of maltose and maltodextrins. This versatile protein exhibits a binding affinity for maltose as well as higher maltodextrins, including maltotriose. As part of this transporter complex, MBP/MaE plays a pivotal role in the efficient and
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selective uptake of maltose and related substrates, contributing to the cellular processes associated with maltose metabolism.

Caution: Product has not been fully validated for medical applications. For research use only.

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