

MMBP Protein, E. coli, Recombinant (His & Myc)

General Information

Synonyms:	Maltodextrin-binding protein;malE;Maltose/maltodextrin-binding periplasmic protein; Maltose-binding protein (MBP);MMBP
Protein Construction:	27-396 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P0AEX9
Molecular Weight:	48.2 kDa (predicted)
AA Sequence:	KIEEGKLVIIWINGDKGYNGLAIEVGGKFEKDTGIKVTVEHPDKLEEKFPQVAATGDGPDIIFWAHDRFGGYAQS GLLAEITPDKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSAL MFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNDNAGAKAGLTLVLDLIKNKHMNADTDYSIAEAAFN KGETAMTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLE AVNKDKPLGAVALKSYEEELAKDPRIAATMENAQKGEIMPNIQMSAFWYAVRTAVINAASGRQTVDEALK DAQTRITK

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Part of the ABC transporter complex MalEFGK involved in maltose/maltodextrin import. Binds maltose and higher maltodextrins such as maltotriose.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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