

IbpA Protein, Yersinia pestis bv. Antiqua, Recombinant (His)

General Information

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| Synonyms: | 16 kDa heat shock protein A;ibpA;Small heat shock protein IbpA |
| Protein Construction: | 1-137 aa |
| Species: | Yersinia pestis |
| Expression Host: | E. coli |
| Accession: | Q1CD74 |
| Molecular Weight: | 21.6 kDa (predicted) |
| AA Sequence: | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRG SHANEPAQRTYLYQGI AERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 85% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Associates with aggregated proteins, together with IbpB, to stabilize and protect them from irreversible denaturation and extensive proteolysis during heat shock and oxidative stress. Aggregated proteins bound to the IbpAB complex are more efficiently refolded and reactivated by the ATP-dependent chaperone systems ClpB and

DnaK/DnaJ/GrpE. Its activity is ATP-independent.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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