

## SHV-3 Protein, Klebsiella pneumoniae, Recombinant (His)

### General Information

Synonyms: shv3;bla;Beta-lactamase SHV-3

Protein Construction: 22-286 aa

Species: Klebsiella pneumoniae

Expression Host: E. coli

Accession: P30896

Molecular Weight: 33.0 kDa (predicted)

AA Sequence: SPQPLEQIKLSESQLSGRVGMIEMDLASGRTLAWRADERFPMSTFKVVLGAVLARVDAGDEQLERKIH  
YRQQDLVDYSPVSEKHLADGMTVGELCAAAITMSDNSAANLLLATVGGPAGLTAFLRQIGDNVTRLDRWETEL  
NEALPGDARDTTTPASMAATLRKLLTSQRLSARSQQLQLQWMVDDRVAGPLIRSVLPAGWFIADKTGASERG  
ARGIVALLGPNNKAERIVVIYLRDTPASMAERNQQIAGIGAALIEHWQR

### QC Testing

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.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

This enzyme hydrolyzes cefotaxime, ceftazidime and other broad spectrum cephalosporins.

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