

## MdtQ Protein, Shigella flexneri, Recombinant (His)

### General Information

Synonyms: Putative multidrug resistance outer membrane protein MdtQ;mdtQ

Protein Construction: 22-478 aa

Species: Shigella flexneri

Expression Host: E. coli

Accession: Q83KF5

Molecular Weight: 56.8 kDa (Predicted)

AA Sequence:

CAPMHETRQALSQQTAAQVDTALPTALKNGWPDSQWWLEYHDNQLTSLINNALQNAPDMQVAEQRIQL  
AEAQAKAVATQDGPQIDFSADMERQKMSAEGLMGPFALNDPAAGTTGPWYTNGTFGLTAGWHLDIWGKN  
RAEVTARLGTVKARAAEREQTRQLLAGSVARLYWEWQTQAALNTVLQIEKEQNTIIATDRQLYQNGITSSV  
DGVETDINASKTRQQLNDVAGKMKIIEARLNALTNHQTKSLKLPVALPKVASQLPDELGYSLLARRADLQAA  
HWYVESSLSTIDAAKAAFYPDINLMAFLQQDALHLSDLFRHSAQQMGVTAGLTLPIFDSGRLNANLDIAKAES  
NLSIASYNKAVVEAVNDVARAASQVQTLAEKNQHQAQIERDALRVVGLAQARFNAGIAGSRVSEARIPALR  
ERANGLLLQGQWLDASIRLTGALGGGYKR

### 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: Not tested.

Formulation: Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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 29 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481