

MOMP Protein, Chlamydia trachomatis, Recombinant (His & Myc)

General Information

Synonyms: Major outer membrane porin, serovar B;MOMP;ompA;omp1B;serovar B

Protein Construction: 23-394 aa

Species: Chlamydia trachomatis

Expression Host: E. coli

Accession: P23421

Molecular Weight: 47.7 kDa (predicted)

AA Sequence: LPVGNPAEPSLMIDGILWEGFGGDPCTTWVDAISMRMGYGDFVFDRLKTDVNKEFQMGAKPTTTTG
NAVAPSTLTARENPAYGRHMQDAEMFTNAACMALNIWDRFDVFCTLGASSGYLKGNSASFNLVGLFGNNE
NQTKVSNAGAFVPNMSLDQSVVELYTDTAFAWSVGARAALWECGCATLGASFQYAQSKPKVEELNVLNAA
EFTINKPKGYYGKELPLDLTAGTDAATGTKDASIDYHEWQASLALSRYRLNMFTPYIGVKWSRASFDADTIRIAQ
PKSAETIFDVTTLNPTIAGAGDVKTS AEGQLGDTMQIVSLQLNKMKSRKSCGIAVGTITVDADKYAVTVETRLID
ERAAHVNAQFRF

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.

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

In elementary bodies (EBs, the infectious stage, which is able to survive outside the host cell) provides the structural integrity of the outer envelope through disulfide cross-links with the small cysteine-rich protein and the large cysteine-rich periplasmic protein. It has been described in publications as the Sarkosyl-insoluble COMC (Chlamydia outer membrane complex), and serves as the functional equivalent of peptidoglycan.; Permits diffusion of specific solutes through the outer membrane.

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