

## MOMP Protein, Chlamydia trachomatis serovar L2, Recombinant (His &amp; SUMO)

## General Information

Synonyms: omp1L2;Major outer membrane porin;MOMP;ompA

Protein Construction: 23-394 aa

Species: Chlamydia trachomatis serovar L2

Expression Host: E. coli

Accession: P06597

Molecular Weight: 56.3 kDa (predicted)

AA Sequence:

LPVGNPAEPSLMIDGILWEGFGGDPCDPTTWCDALSMRMGYGDFVFDRLVLTQDVNKEFQMGAKPTTATG  
NAAAPSTCTARENPAYGRHMQDAEMFTNAAAYMALNIWDRFDVFCTLGATSGYLKGNASAFNLVGLFGDNE  
NHATVSDSKLVPNMSLDQSVVELYDTTFAWSAGARAALWECGCATLGASFQYAQSKPKVEELNVLCNAAE  
FTINKPKGYVGQEFPLDLKAGTDGVTGKTDASIDYHEWQASLALSRLNMFTPYIGVKWSRASFDADTIRIAQ  
PKSATTVFDVTTLNPTIAGAGDVKASAEGQLGDTMQIVSLQLNKMKSRSKCGIAVGTITVDADKYAVTVETRLI  
DERAAHVNAQFRF

## 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: > 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

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

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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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