Data Sheet (Cat.No.TMPH-00388)

TargetMol

Chaperonin GroEL Protein, Chlamydia trachomatis, Recombinant (His & SUMO)

General Information

Synonyms: 60 kDa chaperonin;Chaperonin-60 (Cpn60);hypB;Chaperonin GroEL;groEL;groL;mopA

Protein Construction: 2-544 aa

Species: Chlamydia trachomatis

Expression Host: E. coli

Accession: P0C0Z7

Molecular Weight: 74.0 kDa (predicted)

AA Sequence: VAKNIKYNEEARKKIQKGVKTLAEAVKVTLGPKGRHVVIDKSFGSPQVTKDGVTVAKEVELADKHENMGAQM VKEVASKTADKAGDGTTTATVLAEAIYTEGLRNVTAGANPMDLKRGIDKAVKVVVDQIRKISKPVQHHKEIAQ VATISANNDAEIGNLIAEAMEKVGKNGSITVEEAKGFETVLDIVEGMNFNRGYLSSYFATNPETQECVLEDALV LIYDKKISGIKDFLPVLQQVAESGRPLLIIAEDIEGEALATLVVNRIRGGFRVCAVKAPGFGDRRKAMLEDIAILTG GQLISEELGMKLENANLAMLGKAKKVIVSKEDTTIVEGMGEKEALEARCESIKKQIEDSSSDYDKEKLQERLAKL SGGVAVIRVGAATEIEMKEKKDRVDDAQHATIAAVEEGILPGGGTALIRCIPTLEAFLPMLTNEDEQIGARIVLK ALSAPLKQIAANAGKEGAIIFQQVMSRSANEGYDALRDAYTDMLEAGILDPAKVTRSALESAASVAGLLLTTE ALIAEIPEEKPAAAPAMPGAGMDY

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

Together with its co-chaperonin GroES, plays an essential role in assisting protein folding. The GroEL-GroES system forms a nano-cage that allows encapsulation of the non-native substrate proteins and provides a physical environment optimized to promote and accelerate protein folding.

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