



Recombinant strain D/UW-3/Cx groL Protein Product Manual

1. Product Basic Information

Product No.: REP07044

Protein Name: Chaperonin Groel (groL)

Aliases: chaperonin GroEL

UniProt ID: A4TRR0

UniProt Link: <https://www.uniprot.org/uniprotkb/A4TRR0/entry>

Species Source: Chlamydia trachomatis (strain D/UW-3/Cx)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-544aa)

Molecular Weight: 74.0 kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (2-544aa)

VAKNIKYNEEARKKIQKGVKTLAEAVKVTLGPKGRHVVIDKSFGSPQVTKDGVTVAK
EVELADKHENMGAQMVKEVASKTADKAGDGTATTATVLAEAIYTEGLRNVTAGANP
MDLKRIGDKAVKVVVDQIRKISKPVQHHKEIAQVATISANND AEIGNLIAEAMEKVGK
NGSITVEEAKGFETVL DIVEGMNFN RGYLSSYFATNPETQECVLEDALVLIYDKKISG
IKDFLPVLQQVAESGRPLIIAEDIEGEALATLVN RIRGGFRVCAVKAPGFGDRRKA
MLEDIAILTGGQLISEELGMKLENANLAMLGKAKKVIVSKEDTTIVEGMGEKEALEAR
CESIKKQIEDSSSDYDKEKLQERLAKLSGGVAVIRVGAATEIEMKEKKDRVDDAQHA
TIAAVEEGILPGGGTALIRCIPTLEAFLPMLTNEDEQIGARIVLKALSAPLKQIAANAGK
EGAIIFQQVMSRSANEGYDALRDAYTDMLEAGILDPKAVTRSALESAASVAGLLTT
EALIAEIP EEPKAAAPAMP GAGMDY

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant strain D/UW-3/Cx groL full length of mature protein protein (2-544aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. groL, also known as chaperonin GroEL, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.