

Recombinant Chlamydia Trachomatis GROL Protein (2-544 aa), His-SUMO-tagged

Cat. No. GROL-2049C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chlamydia Trachomatis (strain D/UW-3/Cx) GROL Protein (2-544 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Chlamydia Trachomatis
Source	E.coli
ProteinLength	2-544 aa
Description	Prevents misfolding and promotes the refolding and proper assembly of unfolded polypeptides generated under stress conditions (By similarity). This protein is implicated in the pathogenesis of chlamydial disease. Inflammation elicited by the 57 kDa antigen may damage tissue, with progression to scarring of conjunctival and fallopian tube mucosae, which respectively result in blindness and infertility.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	74.0 kDa
AA Sequence	VAKNIKYNEEARKKIQKGVKTLAEAVKVTLGPKGRHVVIDKSFGSPQVTKDGVTVAKEVELADKHENMGAQMVKEVASKTADKAGDGTATVLAELIYTEGLRNVTAGANPMDLKRIGDKAVKVVVDQIRKISKVPVQHHKEIAQVATISANND AEIGNLIAEAMEKVGKNGSITVEEAKGFETVLDIVEGMNFNRGYLSSYFATNPETQECVLEDALVLIYDKKISGIKD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

FLPVLQQVAESGRPLIIAEDIEGEALATLVVNRIRGGFRVCAVKAPGFGDRRKAMLE
 DIAILTGGQLISEELGMKLENANLAMLGKAKKVIVSKEDTTIVEGMGEKEALEARCESI
 KKQIEDSSSDYDKEKLQERLAKLSGGVAVIRVGAATEIEMKEKKDRVDDAQHATIAA
 VEEGILPGGGTALIRCIPTLEAFLPMLTNEDEQIGARIVLKALSAPLKQIAANAGKEGAIL
 FQQVMSRSANEGYDALRDAYTDMLEAGILDPKAVTRSALESAASVAGLLLTTEALIA
 EIPEEKPAAPAMPAGAGMDY

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

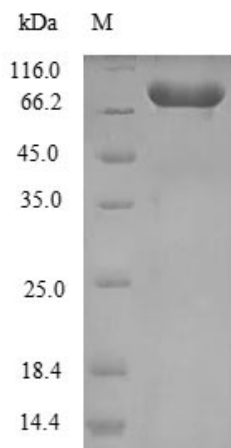
Synonyms groL;

UniProt ID [P0C0Z7](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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