

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

SPECIFICATION

Cat.No.	GROL-2049C
Species	Chlamydia Trachomatis
Product Name	Recombinant Chlamydia Trachomatis GROL Protein (2-544 aa), His-SUMO-tagged
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.
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.
Source	E. coli
Tag	His/SUMO
Form	Tris-based buffer, 50% glycerol
Molecular Mass	74.0 kDa
Protein length	2-544 aa
AA Sequence	VAKNIKYNEEARKKIQKGVKTLAEAVKVTLGPKGRHVVIDKSFGSPQVTKDGVTVAKE VELADKHENMGAQMVKEVASKTADKAGDGTATVLAETGLRNVTAGANPMDL KRGIDKAVKVVVDQIRKISKPVQHHKEIAQVATISANNDAEIGNLIAEAMEKVGKNGSIT VEEAKGFETVLDIVEGMNFNRYLSSYFATNPETQECVLEDALVLIYDKKISGIKDFLP VLQQVAESGRPLIIAEDIEGEALATLVVNRIRGGFRVCAVKAPGFGDRRKAMLEDIAIL TGGQLISEELGMKLENANLAMLGKAKKVIVSKEDTTIVEGMGEKEALEARCESIKKQIE DSSSDYDKEKLQERLAKLSGGVAVIRVGAATEIEMKEKKDRVDDAQHATIAAVEEGIL PGGGTALIRCIPTLEAFLPMLTNEDEQIGARIVLKALSAPLKQIAANAGKEGAIIFQQVM SRSANEGYDALRDAYTDMLEAGILDPKAVTRSALESAASVAGLLLTTEALIAEIPPEKP AAPAMPGAGMDY

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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.
Synonyms	groL;
UniProt ID	P0C0Z7
Figure 1	GROL-2049C, 1.jpg
Figure Note 1	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.