



# Recombinant *E. coli* Lon protease Protein (a.a. 1-784) [His] (DAG-P2312)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Nature	Recombinant
Expression System	<i>E. coli</i>
Species	<i>E. coli</i>
Purity	> 95 % SDS-PAGE
Conjugate	His
Molecular Weight	89 kDa
Cellular Localization	Cytoplasmic
Endotoxin	< 1.000 Eu/g
Procedure	None
Format	Liquid
Size	10 µg
Buffer	0.75% Potassium chloride, 0.79% Tris HCl, 10% Glycerol
Preservative	None
Storage	Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Ship	Shipped on Dry Ice.

## BACKGROUND

## Introduction

E. coli is the head of the large bacterial family, Enterobacteriaceae, the enteric bacteria, which are facultatively anaerobic Gram negative rods that live in the intestinal tracts of animals in health and disease. Pili are macromolecular structures that allow binding to a digalactoside receptor in the urinary tract. Escherichia coli are Gram negative bacterium that are commonly found in the lower intestine of warm-blooded organisms (endotherms). Their serological types are determined in combination with somatic antigens (O group: O1-O173) and flagella antigens (H type: H1-H56). The E. coli that cause intestinal infectious diseases including diarrhea, acute gastritis or colitis are referred to as pathogenic E. coli, which are classified into the following 4 groups according to differences in the mode of pathogenicity; enteropathogenic E. coli (EPEC), enteroinvasive E. coli (EIEC), enterotoxigenic E. coli (ETEC) and enterohemorrhagic E. coli (EHEC). Although the identification of pathogenic E. coli requires verification of their pathogenicity, pathogenic E. coli often have specific serotypes; therefore, typing of the serogroup and serotype is necessary in screening pathogenic E. coli.

## Keywords

DNA binding ATP dependent protease La; Ion; IonA; lopA; E. coli

## ANTIGEN GENE INFORMATION

### Protein Refseq

MNPERSERIE IPVPLLRDV VYPHMVIPLF VGREKSIRCL EAAMDHDKKI MLVAQKEAST  
DEPGVNNDLFT VGTVASILQM LKLPDGTVKV LVEGLQRARI SALSDNGEHF SAKAEYLESP  
TIDEREQEVL VRTAISQFEG YIKLNKKIPP EVLTSLSNSID DPARLADTIA AHMPLKLADK  
QSVLEMSDVN ERLEYLMAMM ESEIDLLQVE KRIRNRVKKQ MEKSQREYYL NEQMKAIQKE  
LGEMDDAPDE NEALKRKIDA AKMPKEAKEK AEAEELQKLKM MSPMSAEATV VRGYIDWMVQ  
VPWNARSKVK KDLRQAQEIL DTDHYGLERV KDRILEYLAQ QSRVNKIKGP ILCLVGPPGV  
GKTSLGQSIA KATGRKYVRM ALGGVRDEAE IRGHRRTYIG SMPGKLIQKM AKVGVKNPLF  
LLDEIDKMSS DMRGDPASAL LEVLDPEQNV AFSDHYLEVD YDLSDVMFVA TSNSMNIPAP  
LLDRMEVIRL SGYTEDEKLN IAKRHLLPKQ IERNALKKGE LTVDDSAIIG IIRYYTREAG  
VRGLEREISK LCRKAVKQLL LDKSLKHIEI NGDNLHDYLG VQRFDYGRAD NENRVGQVTG  
LAWTEVGGDL LTIETACVPG KGKLTYTGSL GEVMQESIQA ALTVVRARAE KLGINPDFYE  
KRDIHVHVPE GATPKDGPSA GIAMCTALVS CLTGNPVRAD VAMTGEITLR GQVLPIGGLK  
EKLLAAHRGG IKTVLIPFEN KRDLEEIPDN VIADLDIHPV KRIEEVLT A LQNEPSGMQV VTAK