

Recombinant E.coli Lon Protease, His-tagged

| SPECIFICATION | |
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| Cat.No. | lon-90E |
| Species | E. coli |
| Product Name | Recombinant E.coli Lon Protease, His-tagged |
| Product Overview | Recombinant E. coli Lon Protease is produced by E.coli transformed with a plasmid containing sequence (Asn2-Lys784) of E. coli Lon Protease fused with a polyhistidine tag at the C-terminus. |
| Description | Lon Protease, is a member of the Lon protease family. They are found in archaea, bacteria and eukaryotes. Lon protease is ATP-dependent serin protease that mediates the selective degradation of mutant and abnormal proteins as well as certain short- lived regulatory proteins, including some antitoxins. It required for cellular homeostasis and for survival from DNA damage and developmental changes induced by stress. It degrades polypeptides processively to yield small peptide fragments that are 5 to 10 amino acids long and binds to DNA in a double-stranded, site-specific manner. Endogenous substrates include the regulatory proteins RcsA and SulA, the transcriptional activator SoxS, and UmuD. Its overproduction specifically inhibits translation through at least two different pathways, one of them being the YoeB-YefM toxin-antitoxin system. |
| Source | E. coli |
| Тад | His |
| Form | Supplied as a 0.2 μM filtered solution of 50mM Tris-HCl, 100mM KCl, 10% Glycerol, pH 7.5 |
| AA Sequence | MGNPERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSIRCLEAAMDHDKKIMLVAQKEA STDEPG VNDLFTVGTVASILQMLKLPDGTVKVLVEGLQRARISALSDNGEHFSAKAE YLESPTIDEREQEV LVRTAISQFEGYIKLNKKIPPEVLTSLNSIDDPARLADTIAAHMPL KLADKQSVLEMSDVNERLE YLMAMMESEIDLLQVEKRIRNRVKKQMEKSQREYYLN EQMKAIQKELGEMDDAPDENEALKRKID AAKMPKEAKEKAEAELQKLKMMSPMSAE ATVVRGYIDWMVQVPWNARSKVKKDLRQAQEILDTDH YGLERVKDRILEYLAVQSR |

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VNKIKGPILCLVGPPGVGKTSLGQSIAKATGRKYVRMALGGVRDEA EIRGHRRTYIGS MPGKLIQKMAKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNVAFSD HYLE VDYDLSDVMFVATSNSMNIPAPLLDRMEVIRLSGYTEDEKLNIAKRHLLPKQIERNALK KG ELTVDDSAIIGIIRYYTREAGVRGLEREISKLCRKAVKQLLLDKSLKHIEINGDNLHD YLGVQRF DYGRADNENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEV MQESIQAALTVVRARA EKLGINPDFYEKRDIHVHVPEGATPKDGPSAGIAMCTALVSC LTGNPVRADVAMTGEITLRGQVL PIGGLKEKLLAAHRGGIKTVLIPFENKRDLEEIPDN VIADLDIHPVKRIEEVLTLALQNEPSGMQ VVTAKLEHHHHHH

PurityGreater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage Store at < -20°C, stable for 6 months after receipt.Please minimize freeze-thaw cycles.

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Endotoxin

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