

Product datasheet for **TP725962**

Escherichia coli Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant E. colic Lon Protease (C-6His)
Species:	Escherichia coli
Expression cDNA Clone or AA Sequence:	Asn2-Lys784
Tag:	C-His
Buffer:	Supplied as a 0.2 μ m filtered solution of 50mM TrisHCl, 100mM KCl, 10% Glycerol, pH 7.5
Note:	Recombinant E. colic Lon Protease is produced by our E. coli expression system and the target gene encoding Asn2-Lys784 is expressed with a His tag at the C-terminus.
Stability:	12 months from date of despatch
Summary:	Lon Protease, is a member of the Lon protease family. They are found in archaea, bacteria and eukaryotes. Lon protease is ATP-dependent serine 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



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