

Recombinant E. coli LON PROTEASE Protein, His tagged

Cat. No. LON PROTEASE-53E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E. coli LON PROTEASE Protein, His Tag(KMP4411) is produced in E. coli. A DNA sequence encoding E.coil Lon (P0A9M0) (Met1-Lys784) was expressed with a polyhistidine tag at the C-terminus.
Species	E.coil
Source	E.coil
Description	Lon protease, an ATP-dependent mitochondrial protease, is important in mitochondrial protein maintenance. Lon protease is a multifunctional enzyme, and its functions include the degradation of damaged proteins and naturally short-lived proteins, ATPase and chaperone-like activities, as well as DNA binding. Lon protease plays a major role in the protein quality control system in mammalian cell mitochondria. It is present in the mitochondrial matrix and degrades oxidized and misfolded proteins, thereby protecting the cell from various extracellular stresses, including oxidative stress. The intellectual disability-associated and thalidomide-binding protein cereblon (CRBN) contains a large, highly conserved Lon domain. The Lon ATP-dependent protease plays an important role in regulating many biological processes in bacteria.
Molecular Mass	88.3 kDa
Purification	Affinity purification
Endotoxin	<1.0

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	EU/μg determined by the LAL method
Purity	> 90% determined by SDS-PAGE
Storage	Aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	PBS, 10% Glycerol, pH7.4
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. If supplied as liquid, the proteins will be shipped with dry ice.
GENE INFORMATION	
Synonyms	LON PROTEASE

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