

## LON PROTEASE Protein, E. coli, Recombinant (His)

### General Information

Protein Construction:	ANXA5 / Annexin V / Annexin A5 protein are conjugated with FITC under optimum conditions, the unreacted FITC was removed. Predicted N terminal: Met
Species:	E. coli
Expression Host:	E. coli
Accession:	P0A9M0
Molecular Weight:	88.3 kDa (predicted); 88 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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