

LasA Protein, Pseudomonas aeruginosa, Recombinant (His & SUMO)

General Information

Synonyms:	lasA;Staphylolytic protease;Protease LasA
Protein Construction:	237-418 aa
Species:	Pseudomonas aeruginosa
Expression Host:	E. coli
Accession:	P14789
Molecular Weight:	36.0 kDa (predicted)
AA Sequence:	APPSNLMQLPWRQGYSWQPNGAHSNTGSGYPYSSFDASYDWPRWGSATYSVVAAHAGTVRVLSRCQVRV THPSGWATNYHMDQIQVSNGQQVSADTKLGVYAGNINTALCEGGSSTGPLHFSLLYNGAFVSLQGASFG PYRINVGTSNYDNDCCRYYFYNQSAGTTHCAFRPLYNPGLAL

QC Testing

Biological Activity:	Activity has not been tested. 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:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Involved in proteolysis and elastolysis (degradation of the host protein elastin). Has staphylolytic activity (degrades pentaglycine cross-links in cell wall peptidoglycan), preferring Gly-Gly-|-X substrates where X is Ala or Gly. Enhances the elastolytic but not proteolytic activity of elastase (lasB) and elastolytic activity of other proteases. Degradation of host elastin is likely to contribute to the pathogenicity of P.aeruginosa. While either His-317 or His-356 can abstract a proton in the hydrolysis reaction, the same residue performs both functions in a

given catalytic cycle, with the other stabilizing the catalytic intermediate.

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