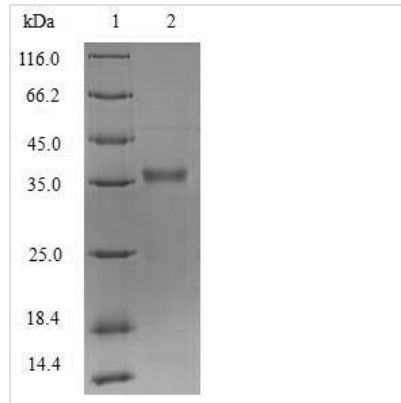


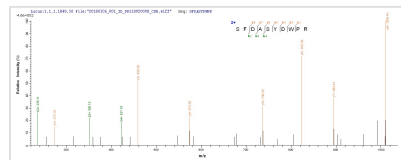


# Recombinant *Pseudomonas aeruginosa* Protease LasA (lasA)

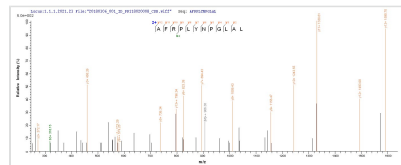
<b>Product Code</b>	CSB-EP318588EZ
<b>Relevance</b>	Involved in proteolysis and elastolysis (degradation of the host protein elastin). Has staphylolytic activity (degrades pentaglycine cross-links in cell wall peptidoglycan), preferring Gly-Gly- -X substrates where X is Ala or Gly (PubMed:11179971). Enhances the elastolytic but not proteolytic activity of elastase (lasB) and elastolytic activity of other proteases (PubMed:2110137). Degradation of host elastin is likely to contribute to the pathogenicity of <i>P.aeruginosa</i> . 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
<b>Abbreviation</b>	Recombinant <i>Pseudomonas aeruginosa</i> lasA protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P14789
<b>Alias</b>	Staphylolytic protease
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	<i>Pseudomonas aeruginosa</i> (strain ATCC 15692 / PAO1 / 1C / PRS 101 / LMG 12228)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	APPSNLMQLPWRQGYSWQPNGAHSNTGSGYPYSSFDASYDWPRWGSATYS VVAAHAGTVRVL SRCQVRVTHPSGWATNYYHMDQIQVSNGQQVSADTKLGV YAGNINTALCEGGSSTGPHLHFSLLYNGAFVSLQGASFGPYRINVGTSNYDND CRRYYFYNQSAGTTHCAFRPLYNPGLAL
<b>Research Area</b>	others
<b>Source</b>	<i>E.coli</i>
<b>Target Names</b>	lasA
<b>Protein Names</b>	Recommended name: Protease lasA EC= 3.4.24.-Alternative name(s): Staphylolytic protease
<b>Expression Region</b>	237-418aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	36.0kDa


**Protein Length**
**Full Length of Mature Protein**
**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP318588EZC could indicate that this peptide derived from E.coli-expressed *Pseudomonas aeruginosa* (strain ATCC 15692 / PAO1 / 1C / PRS 101 / LMG 12228) lasA.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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