

## LASB Protein, Pseudomonas aeruginosa (P. pastoris, His)

Cat. No.:	HY-P700628
Synonyms:	lasB; Neutral metalloproteinase PAE Pseudolysin Cleaved into the following chain: Pro-elastase;
Species:	Others
Source:	P. pastoris
Accession:	P14756 (A198-L498)
Gene ID:	880368
Molecular Weight:	35.2 kDa

### PROPERTIES

AA Sequence	<pre> A E A G G P G G N Q   K I G K Y T Y G S D   Y G P L I V N D R C   E M D D G N V I T V D M N S S T D D S K   T T P F R F A C P T   N T Y K Q V N G A Y   S P L N D A H F F G G V V F K L Y R D W   F G T S P L T H K L   Y M K V H Y G R S V   E N A Y W D G T A M L F G D G A T M F Y   P L V S L D V A A H   E V S H G F T E Q N   S G L I Y R G Q S G G M N E A F S D M A   G E A A E F Y M R G   K N D F L I G Y D I   K K G S G A L R Y M D Q P S R D G R S I   D N A S Q Y Y N G I   D V H H S S G V Y N   R A F Y L L A N S P G W D T R K A F E V   F V D A N R Y Y W T   A T S N Y N S G A C   G V I R S A Q N R N Y S A A D V T R A F   S T V G V T C P S A   L           </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	LASB (LasA) protein, identified as a virulence factor in Pseudomonas aeruginosa, plays a significant role in the pathogenesis of infections. This calcium-dependent metalloprotease exhibits a broad substrate specificity, cleaving host elastin, collagen, IgG, and various complement components, along with endogenous pro-aminopeptidase. LASB engages in autocatalytic
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processing of its pro-peptide and also processes the pro-peptide of pro-chitin-binding protein (cbpD). These enzymatic activities contribute to the bacterium's virulence by facilitating tissue damage and immune evasion. The diverse substrate specificity and autocatalytic processing underscore LASB's multifaceted role in the pathogenicity of *P. aeruginosa*.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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