

## Elastase Protein, Pseudomonas aeruginosa, Recombinant (His &amp; SUMO)

## General Information

Synonyms: Elastase;PAE;Pseudolysin;lasB;Neutral metalloproteinase

Protein Construction: 198-498 aa

Species: Pseudomonas aeruginosa

Expression Host: E. coli

Accession: P14756

Molecular Weight: 49.1 kDa (predicted)

AA Sequence:

AEAGGPGGNQKIGKITYGSDYGPLIVNDRCEMDDGNVITVDMNSSTDDSKTTPFRFACPTNTYKQVNGAYS  
PLNDAHFFGGVVFKLYRDWFGTSPLTHKLYMKVHYGRSVENAYWDGTAMLFGDGATMFYPLVSLDVA AHE  
VSHGFTEQNSGLIYRGQSGGMNEAFSDMAGEAAEFYMRGKNDFLIGYDIKKGSGALRYMDQPSRDGRSIDN  
ASQYYNGIDVHSSGVYNRAFYLLANSPGWDTRKAFEVFDANRYWTATSNYNSGACGVIRSAQNRNYS  
AADVTRAFSTVGVTCPSAL

## 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:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Cleaves host elastin, collagen, IgG, and several complement components as well as endogenous pro-aminopeptidase. Autocatalyses processing of its pro-peptide. Processes the pro-peptide of pro-chitin-binding

protein (cbpD). Involved in the pathogenesis of P.aeruginosa infections.

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