

Recombinant Pseudomonas Aeruginosa LASA Protein (237-418 aa), His-SUMO-tagged

Cat. No. LASA-2104P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pseudomonas Aeruginosa (strain ATCC 15692/PAO1/1C/PRS 101/LMG 12228) LASA Protein (237-418 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Pseudomonas Aeruginosa
Source	E.coli
ProteinLength	237-418 aa
Description	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 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	36.0 kDa

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AA Sequence	APPSNLMQLPWRQGYSWQPNGAHSNTGSGYPYSSFDASYDWPRWGSATYSVVA AHAGTVRVLSRCQVRVTHPSGWATNYYHMDQIQVSNGQQVSADTKLGVYAGNINT ALCEGGSSTGPHLHFSLLYNGAFVSLQGASFGPYRINVGTSNYDNDCCRYYFYFYNQS AGTTHCAFRPLYNPGLAL
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

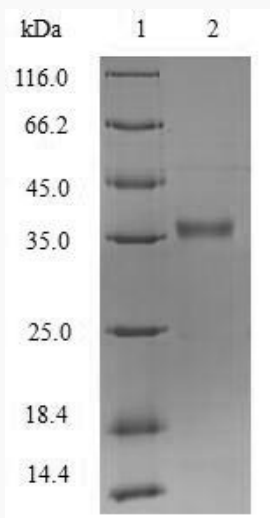
GENE INFORMATION

Gene Name	lasA protease LasA [Pseudomonas aeruginosa PAO1]
Official Symbol	LASA
Synonyms	lasA; Staphylolytic protease;
Gene ID	878260
Protein Refseq	NP_250562
UniProt ID	P14789

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

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