

Native *Geobacillus stearothermophilus* Thermolysin Protein

Cat. No. Thermolysin **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Geobacillus stearothermophilus-derived Thermolysin protein
Species	Geobacillus stearothermophilus
Description	Thermolysin is a zinc protease that can be used to activate a number of proteases. Its activity can be inhibited by phosphoramidon, 1,10-phenanthroline or EDTA.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH. The specific activity is >12,000 pmol/min/μg, as measured with 10 μM ES005 and 2 ng enzyme in 100 μL of 50 mM Tris, 10 mM CaCl ₂ , 0.15 M NaCl, 0.05% Brij 35, pH 7.5.
Molecular Mass	36 kDa, reducing conditions
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>70%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl, CaCl ₂ and Glycerol.

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Shipping

The product is shipped with polar packs.

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