



Recombinant *Bacillus Thermolysin* (DAG2606)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Bacterial Thermolysin antigen was expressed in <i>Bacillus thermoproteolyticus</i> rokko.
Species	<i>Bacillus</i>
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Conjugate	Unconjugated
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Like all bacterial extracellular proteases thermolysin is first synthesised by the bacterium as a pre-proenzyme. Thermolysin is synthesized as a pre-proenzyme consisting of a signal peptide 28 amino acids long, a pro-peptide 204 amino acids long and the mature enzyme itself 316 amino acids in length. The signal peptide acts as a signal for translocation[disambiguation needed] of pre-prothermolysin to the bacterial cytoplasmic membrane. In the periplasm pre-prothermolysin is then processed into prothermolysin by a signal peptidase. The prosequence then acts as a molecular chaperone and leads to autocleavage of the peptide bond linking pro and mature sequences. The mature protein is then secreted into the extracellular medium
Keywords	<i>Bacillus thermoproteolyticus</i> neutral proteinase; Thermolysin; <i>B. thermoproteolyticus</i> Thermolysin protein