

## The novel adams-like microbial metalloendopeptidase

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### Abstract

Heterologous gene expression of the extracellular minor metalloendopeptidase of *Bacillus pumilus* 3-19 (AN EU678894) in the protease-deficient *B. pumilus* 3-19 strain has been studied. The enzyme fraction in the total pool of *B. pumilus* 3-19 proteases is less than 8%. The enzyme was isolated from the culture liquid of the recombinant strain and purified to a homogeneous state; its primary structure was determined and its physicochemical properties were investigated. The secreted metalloendopeptidase of *B. pumilus* 3-19 is the first prokaryotic homologue of the eukaryotic adamalysin/reprolysin protein family. © Pleiades Publishing, Ltd., 2012.

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### Keywords

Adamalysins/reprolysin, *B. pumilus*, Metalloendopeptidase, Primary structure, Properties, Recombinant strain