Creative Enzymes®

signal peptidase I

Cat. No. EXWM-4180

Lot. No. (See product label)

Introduction

Description	The enzyme is found in bacterial membranes and in chloroplast thylakoid membranes. Unaffected by inhibitors of most serine peptidases, but site-directed mutagenesis implicates a Ser/Lys catalytic dyad in activity. Hydrolyses a single bond -Ala┼Ala- in M13 phage procoat protein, producing free signal peptide and coat protein. Formerly included in EC 3.4.99.36. Eukaryote signal peptidases that may have somewhat different specificity are known from the endoplasmic reticulum membrane and mitochondrial inner membrane. Type example of peptidase family S26
Synonyms	leader peptidase I; signal proteinase; Escherichia coli leader peptidase; eukaryotic signal peptidase; eukaryotic signal proteinase; leader peptidase; leader peptide hydrolase; leader proteinase; signal peptidase; pilin leader peptidase; SPC; prokaryotic signal peptidase; prokaryotic leader peptidase; HOSP; prokaryotic signal proteinase; propeptidase; PuIO prepilin peptidase; signal peptide hydrolase; signal peptide peptidase; signalase; bacterial leader peptidase 1; pilin leader peptidase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.21.89
CAS No.	65979-36-4
Reaction	Cleavage of hydrophobic, N-terminal signal or leader sequences
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.