

## **muramoylpentapeptide carboxypeptidase**

*Cat. No. EXWM-4080*

*Lot. No. (See product label)*

### **Introduction**

#### **Description**

A bacterial enzyme that requires a divalent cation for activity. Does not cleave the C-terminal D-alanine from the product of the above reaction, UDP-N-acetyl-muramoyl-L-alanyl-γ-D-glutamyl-6-carboxy-L-lysyl-D-alanine. Competitively inhibited by penicillins and cephalosporins.

#### **Synonyms**

D-alanine carboxypeptidase I; DD-carboxypeptidase; D-alanine carboxypeptidase; D-alanyl-D-alanine carboxypeptidase; D-alanine-D-alanine-carboxypeptidase; carboxypeptidase D-alanyl-D-alanine; carboxypeptidase I; UDP-N-acetylmuramoyl-tetrapeptidyl-D-alanine alanine-hydrolase; D-alanyl-D-alanine peptidase; DD-peptidase; penicillin binding protein 5; PBP5; PdcA; VanY

### **Product Information**

#### **Form**

Liquid or lyophilized powder

#### **EC Number**

EC 3.4.17.8

#### **CAS No.**

9077-67-2

#### **Reaction**

Cleavage of the bond UDP-N-acetylmuramoyl-L-alanyl-γ-D-glutamyl-6-carboxy-L-lysyl-D-alanyl-D-alanine

#### **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 °C for short term. For long term storage, store it at -20 °C~-80 °C.