

## Native Pseudomonas sp. Carboxypeptidase G

Cat. No. NATE-0102

Lot. No. (See product label)

## Introduction

**Description** Carboxypeptidase G is a lysosomal, thiol-dependent protease, which progressively cleaves γ-glutamyl

pteroyl poly- $\gamma$ -glutamate yielding pteroyl- $\alpha$ -glutamate (folic acid) and free glutamate. It is considered highly specific for the  $\gamma$ -glutamyl bond, but not for the C-terminal amino acid of the leaving group.1 Molecular mass of this homodimer is approximately 90 kDa. The enzyme is activated by Zn2+ ions.

Applications Carboxypeptidase G from Pseudomonas sp., or γ-Glutamyl hydrolase, has been used in a study to assess

the role of the putidaredoxin COOH-terminus in P-450cam (cytochrome m) hydroxylations.

Carboxypeptidase G from Pseudomonas sp. has also been used in a study to investigate the effects of

nitric oxide on pemetrexed cytotoxicity via NO-cGMP signaling in lung adenocarcinoma cells.

*Synonyms* γ-Glutamyl hydrolase; EC 3.4.17.11; 9074-87-7; glutamate carboxypeptidase; carboxypeptidase G;

carboxypeptidase G1; carboxypeptidase G2; glutamyl carboxypeptidase; N-pteroyl-L-glutamate

hydrolase

## **Product Information**

**Source** Pseudomonas sp.

**Form** Iyophilized powder contains sodium acetate salt.

**EC Number** EC 3.4.17.11

**CAS No.** 9074-87-7

**Activity** > 3 units/mg protein

**Composition** Protein, ~70% biuret

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**Unit** One unit will hydrolyze 1.0 μmole of L-glutamic acid from (+)amethopterin per min at pH 7.3 at 30°C.

Definition

## Storage and Shipping Information

*Storage* −20°C

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