

## Native Flavobacterium sp. Creatinase

Cat. No. NATE-0161

Lot. No. (See product label)

## Introduction

**Description** In enzymology, a creatinase (EC 3.5.3.3) is an enzyme that catalyzes the chemical reaction:creatine +

H2O↔ sarcosine + urea. Thus, the two substrates of this enzyme are creatine and H2O, whereas its two products are sarcosine and urea. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amidines. Creatinase accelerates the conversion reaction of creatine and water molecule to sarcosine and urea. It always acts in

homodimer state and is induced by choline chloride.

**Synonyms** Creatine amidinohydrolase; creatinase; 37340-58-2; EC 3.5.3.3

## **Product Information**

**Source** Flavobacterium sp.

**Form** lyophilized powder

**EC Number** EC 3.5.3.3

*CAS No.* 37340-58-2

Activity 10-20 units/mg protein

**Composition** Protein, ~75% biuret

**Buffer** Lyophilized powder containing phosphate buffer and lactose

**Unit** One unit will hydrolyze 1.0  $\mu$ mole of creatine to urea and sarcosine per min at pH 7.5 at 37°C.

Definition

## Storage and Shipping Information

**Stability** 2-8°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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