

## Native *Clostridium perfringens* (C. welchii) Choloylglycine Hydrolase

Cat. No. NATE-0129

Lot. No. (See product label)

### Introduction

#### Description

Choloylglycine hydrolase (EC 3.5.1.24) is an N-terminal nucleophilic (Ntn) hydrolase that catalyzes the hydrolysis of amide bonds, liberates the glycine/taurine moiety from the steroid core and eventually yields unconjugated bile acids. Agents that oxidize thiol groups (e.g., p-mercuribenzoate, iodoacetamide, Hg<sup>2+</sup>, Cu<sup>2+</sup>, and Cd<sup>2+</sup>) have been shown to strongly inhibit bile salt hydrolase (BSH) activity in *Clostridium perfringens*.

#### Applications

The enzyme from Creative Enzymes has been used in the analysis of bile samples in various studies.

#### Synonyms

EC 3.5.1.24; glycocholase; bile salt hydrolase; choloyltaurine hydrolase; 3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-oylglycine amidohydrolase; 37289-07-9

### Product Information

#### Source

*Clostridium perfringens* (C. welchii)

#### Form

lyophilized powder. Partially purified lyophilized powder containing buffer salts and stabilizer

#### EC Number

EC 3.5.1.24

#### CAS No.

37289-07-9

#### Activity

> 100 units/mg protein

#### Unit Definition

One unit will hydrolyze 1.0  $\mu$ mole of glycocholic acid to glycine and cholic acid in 5 min at pH 5.6 at 37°C.

### Storage and Shipping Information

#### Storage

-20°C