

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, Hg²⁺, Cu²⁺, and Cd²⁺) 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 α ,7 α ,12 α -trihydroxy-5 β -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 μ 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