

## Native Human Cathepsin B

Cat. No. NATE-0168

Lot. No. (See product label)

### Introduction

**Description** Cathepsin B has been found to cleave procaspase 1 and procaspase 11 and to induce apoptosis in digitonin-permeabilized cells. Translocation of cathepsin B from the cytoplasm to the nucleus contributes to bile salt induced apoptosis of rat hepatocytes. Levels of cathepsin B in PC12 cells significantly decrease 12 to 24 hours after apoptosis is induced.

**Synonyms** CTSB; cathepsin B; cathepsin B1; APPS; CPSB; EC 3.4.22.1; 9047-22-7; cathepsin II; CatB

### Product Information

**Species** Human

**Source** Human liver

**Form** Frozen in 50 mM Na Acetate, pH 5.0, with 1 mM EDTA

**EC Number** EC 3.4.22.1

**CAS No.** 9047-22-7

**Activity**  $\geq 200$  units/mg protein

**Pathway** Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Toll Receptor Cascades, organism-specific biosystem

**Function** cysteine-type endopeptidase activity; cysteine-type peptidase activity; kininogen binding; peptidase activity; peptide binding; protein binding

**Unit Definition** One unit is defined as the amount of enzyme that hydrolyzes one umole of Z-Arg-Arg-beta-naphthylamide per minute at 40°C, using 100 mM Na/K phosphate, pH 6.0, with 1.33 mM EDTA and 2 mM DTT as the activation buffer.

### Storage and Shipping Information

**Storage**  $\leq -70^{\circ}\text{C}$