

## Native Bovine Cathepsin B

Cat. No. NATE-0167

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; 9047-22-7; APPS; CPSB; cathepsin B1 (obsolete); cathepsin II

### Product Information

**Species** Bovine

**Source** Bovine spleen

**Form** Lyophilized powder containing sodium phosphate, sodium chloride and ~6% EDTA as stabilizer.

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

**Activity** > 10 units/mg protein

**Composition** Protein, > 30% biuret

**Pathway** Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Assembly of collagen fibrils and other multimeric structures, organism-specific biosystem

**Function** collagen binding; cysteine-type endopeptidase activity; proteoglycan binding

**Unit Definition** One unit will hydrolyze 1  $\mu$ mole of Z-lysine p-nitrophenyl ester per min at pH 5.0 at 25°C.