

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 μ mole of Z-lysine p-nitrophenyl ester per min at pH 5.0 at 25°C.