Creative Enzymes®

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	>= 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	<= -70°C