Creative Enzymes®

Native Human Cathepsin L

Cat. No. NATE-0177

Lot. No. (See product label)

Introduction

Description	Cathepsin L (EC 3.4.22.15, Aldrichina grahami cysteine proteinase) is an important lysosomal endopeptidase enzyme which is involved in the initiation of protein degradation. It is a member of the Peptidase C1 family, which play an important role in diverse processes including normal lysosome mediated protein turnover, antigen and proprotein processing, and apoptosis. Cathepsin L has been reported in many organisms including fish, birds and mammals.
Applications	The most powerful of the lysosomal proteinases. It has a higher specific activity than cathepsin B and H in the degradation of a variety of physiological protein substrates.
Synonyms	cathepsin L; CTSL; EC 3.4.22.15; Aldrichina grahami cysteine proteinase; 60616-82-2

Product Information

Species	Human
Source	Human liver
Form	Solution in in 20 mM malonate, pH 5.5, 1 mM EDTA, and 400 mM NaCl.
EC Number	EC 3.4.22.15
CAS No.	60616-82-2
Activity	> 0.5 units/mg protein
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Endosomal/Vacuolar pathway, organism-specific biosystem
Function	collagen binding; cysteine-type peptidase activity; histone binding
Unit Definition	One unit will hydrolyze 1.0 μmole of Z-Phe-Arg-AFC per minute at pH 5.5 at 25°C.

Storage and Shipping Information

Storage	−20°C