

Native Bovine Cathepsin D

Cat. No. NATE-0171

Lot. No. (See product label)

Introduction

Description

Cathepsin D is an endosomal-lysosomal aspartic protease implicated in breast cancer metastasis and Alzheimer's disease. Lysosomal release of cathepsin D has been found to precede cytochrome c release and loss of membrane potential in apoptotic Human foreskin fibroblasts. Cathepsin D levels in PC12 cells increase 12 to 24 hours after apoptosis is induced.

Synonyms

CTSD; cathepsin D; 9025-26-7; EC 3.4.23.5; CLN10; CPSD; HEL-S-130P

Product Information

Species

Bovine

Source

Bovine spleen

Form

Lyophilized powder containing Citrate buffer salts

EC Number

EC 3.4.23.5

CAS No.

9025-26-7

Molecular Weight

45 kDa

Activity

> 2.0 units/mg protein

Pathway

Adaptive Immune System, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Lysosome, organism-specific biosystem

Function

aspartic-type endopeptidase activity

Unit Definition

One unit will produce an increase in A280 of 1.0 per min per mL at pH 3.0 at 37°C measured as TCA-soluble products using hemoglobin as substrate (1 cm light path).