

## Native Human Cathepsin D

Cat. No. NATE-0172

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

### Product Information

#### Species

Human

#### Source

Human liver

#### Form

lyophilized powder

#### EC Number

EC 3.4.23.5

#### CAS No.

9025-26-7

#### Activity

> 250 units/mg protein (E1%/280)

#### Pathway

Ceramide signaling pathway, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; LKB1 signaling events, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem

#### Function

aspartic-type endopeptidase activity; peptidase activity

#### Unit Definition

One unit will produce an increase in A280 of 1.0 in 30 min at pH 3.3 at 37°C measured as TCA-soluble products using acid-denatured hemoglobin as substrate (1 cm light path).

### Storage and Shipping Information

#### Storage

−20°C