

## Native Human Cathepsin H

Cat. No. NATE-0176

Lot. No. (See product label)

### Introduction

#### Description

Cathepsin H is a protein that in humans is encoded by the CTSH gene. The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Two transcript variants encoding different isoforms have been found for this gene.

#### Synonyms

CTSH; cathepsin H; CPSB; ACC-4; ACC-5; ACC4; ACC5; CPSB; minichain

### Product Information

#### Species

Human

#### Source

Human Liver

#### Form

Liquid

#### Molecular Weight

28 kDa

#### Purity

> 95% (SDS-PAGE)

#### Optimum pH

4.5

#### Pathway

Lysosome, organism-specific biosystem; Lysosome, conserved biosystem

#### Function

HLA-A specific activating MHC class I receptor activity; aminopeptidase activity; apoptotic protease activator activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; endopeptidase activity; kininogen binding; peptidase activity; protein binding; serine-type endopeptidase activity; thyroid hormone binding

### Storage and Shipping Information

#### Storage

-40°C