

## 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 CTSB 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** CTSB; 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