

## Native Human Cathepsin S

Cat. No. NATE-0178

Lot. No. (See product label)

### Introduction

**Description** Cathepsin S is a lysosomal cysteine protease found primarily in the spleen and in lung macrophages. Its level is elevated in the brain tissue of those with Alzheimer's disease and Down syndrome. Cathepsin S may function in the processing of amyloid precursor protein to amyloid beta peptides.

**Applications** Cathepsin S from human spleen has been used in a study to assess the sequence identification, tissue distribution and polymorphism of the porcine cathepsin D (CTSD) Gene. Cathepsin S from human spleen has also been used in a study to investigate a new promising camptothecin analogue-polysaccharide conjugate.

**Synonyms** CTSS; cathepsin S; EC 3.4.22.27; FLJ50259; MGC3886

### Product Information

**Species** Human

**Source** Human spleen

**Form** lyophilized powder. Lyophilized from 100 mM sodium acetate, pH 5.5, and 1 mM EDTA.

**EC Number** EC 3.4.22.27

**Pathway** Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Endosomal/Vacuolar pathway, organism-specific biosystem

**Function** cysteine-type endopeptidase activity; peptidase activity

**Unit Definition** One unit will hydrolyze Z-Val-Val-Arg-NHMec to yield 2 nanomoles of 7-amino-4-methylcoumarin in 10 minutes at pH 6.5 at 25°C

### Storage and Shipping Information

**Storage** -70°C