

## Cathepsin K from Human, recombinant

Cat. No. NATE-1705

Lot. No. (See product label)

### Introduction

#### Description

Cathepsin K, a member of the papain cysteine proteinase family is the predominant proteinase responsible for the resorption of the bone matrix. Cathepsin cleaves proteins such as collagen type I, collagen type II and osteonectin, thereby playing a role in bone remodeling and resorption in osteoporosis, osteolytic bone metastasis and rheumatoid arthritis.

#### Synonyms

CTSK; CTSO; CTSO3; Cathepsin O; Cathepsin O2; Cathepsin X; EC 3.4.22.38

### Product Information

#### Species

Human

#### Source

E. coli

#### Form

Liquid

#### EC Number

EC 3.4.22.38

#### CAS No.

94716-09-3

#### Purity

> 95% by SDS-PAGE

#### Activity

>900 mU/mg protein

#### Unit Definition

One unit is defined as the amount of enzyme that will hydrolyze 0.4  $\mu$ mol Z-FR-AMC per min at 37°C, pH 5.5.

### Storage and Shipping Information

#### Storage

at -80°C. Avoid freeze/thaw