

## Recombinant Clostridium Histolyticum Collagenase I

Cat. No. DIGS-254

Lot. No. (See product label)

### Introduction

#### Description

Collagenase I from Clostridium histolyticum is prepared by recombinant expression in Escherichia coli and has a molecular weight of approximately 126 kDa. It includes a histidine tag. Collagen is not easily degraded by common proteases and only undergoes hydrolysis under high-temperature or extreme acidic/alkaline conditions. However, collagenase can specifically hydrolyze the triple helical structure of native collagen under physiological pH and temperature conditions.

#### Applications

For hydrolysis of collagen. Dissolution Buffer: Dissolve in 0.15 mol/L sodium chloride and 0.02 mol/L phosphate buffer, pH 7.0–7.4. After dissolution, aliquot and store at below -15°C. Enzyme Digestion Buffer: 0.15 mol/L sodium chloride, 0.02 mol/L phosphate buffer (pH 7.2), and 0.1 mM calcium chloride, pH 7.0–7.4.

### Product Information

#### Species

Clostridium histolyticum

#### Source

E. coli

#### Form

0.15 mol/L sodium chloride, 0.02mol/L phosphate buffer, pH 7.0~7.4; Dissolve and pack, store below -15°C.

#### CAS No.

9001-12-1

#### Molecular Weight

126Da±10kDa

#### Purity

≥80%

#### Activity

≥0.1USP/mg

### Storage and Shipping Information

#### Storage

The freeze-dried powder is stored below -20°C for 36 months. 0.15 mol/L sodium chloride, 0.02mol/L phosphate buffer, pH 7.0~7.4.