

## 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

<b>Species</b>	Clostridium histolyticum
<b>Source</b>	E. coli
<b>Form</b>	0.15 mol/L sodium chloride, 0.02mol/L phosphate buffer, pH 7.0~7.4; Dissolve and pack, store below -15°C.
<b>CAS No.</b>	9001-12-1
<b>Molecular Weight</b>	126Da±10kDa
<b>Purity</b>	≥80%
<b>Activity</b>	≥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.