Creative Enzymes®

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.