

Collagenase

Collagenase are purified from *Clostridium histolyticum*, which is a protease with specificity for the bond between a neutral amino acid (X) and glycine in the sequence Pro-XGly-Pro. This sequence is found in high frequency in collagen. Collagenase is unique among proteases in its ability to degrade the triplehelical native collagen fibrils commonly found in connective tissue. Collagenase has extensive applications of life sciences, with the following main uses:

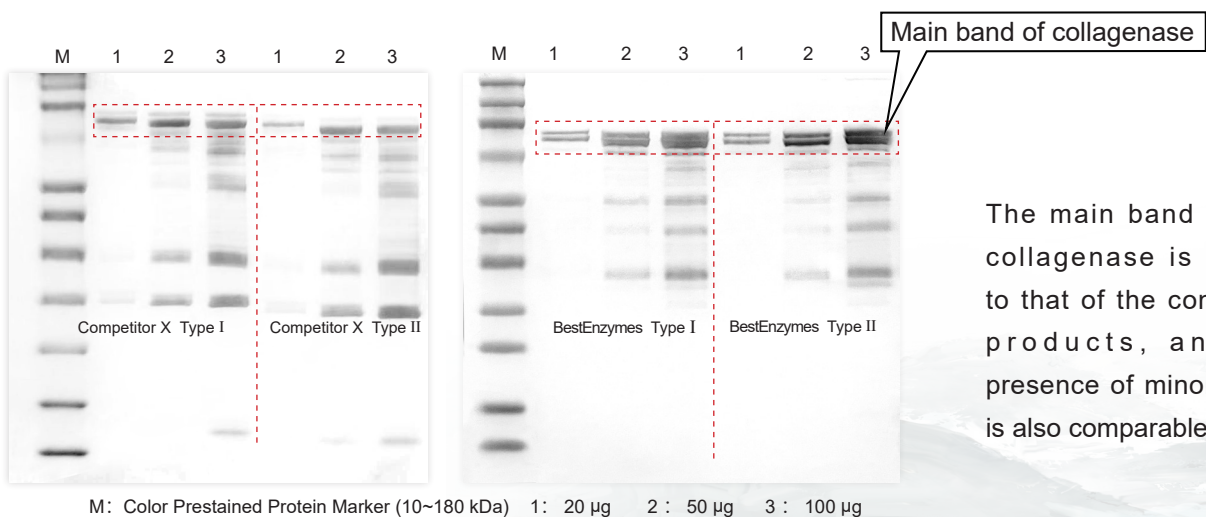
- ▶ Cell isolation and primary cell culture, including stem cell research, tumor cell isolation, and organ-specific cell culture.
- ▶ Tissue engineering and regenerative medicine, including decellularized scaffold preparation and extracellular matrix research.
- ▶ Disease models and drug development, including organoid culture, drug screening; and other applications.



Products Features

- High enzyme activity
- Collagenase I is suitable for dissociation of tissues and cells in epithelium, liver, lung, adipose tissue, adrenal gland, etc.
- Collagenase IV Low trypsin activity, suitable for islet cell dissociation.
- Pharmaceutical-grade raw materials with good batch stability.
- Collagenase II is suitable for dissociation of tissues and cells in heart, thyroid, salivary gland, liver, bone, cartilage, etc.

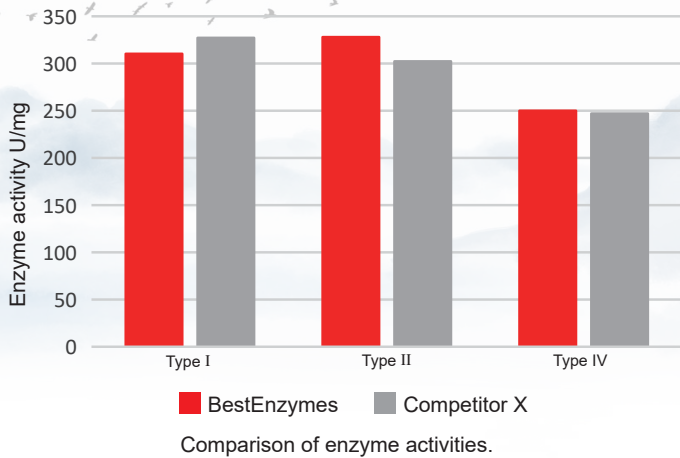
Technical Features



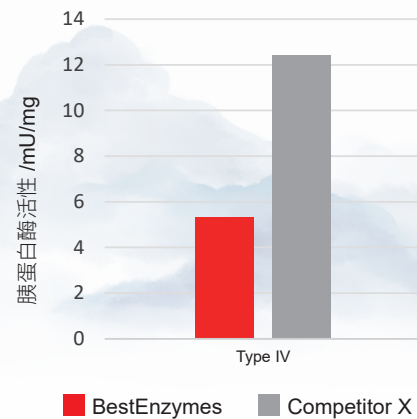
M: Color Prestained Protein Marker (10~180 kDa) 1: 20 μ g 2: 50 μ g 3: 100 μ g

Comparison of collagenase by SDS-PAGE.

The main band size of collagenase is similar to that of the competing products, and the presence of minor bands is also comparable.



BestEnzyme's collagenase products have similar enzyme activity compared to competitors.



BestEnzyme's Collagenase Type IV features lower trypsin activity than that of its competitors.

Technical support



Grand Life Sciences (Anshan) Co., Ltd. and BestEnzymes Biotech have officially signed a promotion service cooperation agreement. We will work closely together to expand collagenase applications, accelerating innovative research and development in cell isolation and culture, tissue engineering, regenerative medicine, and related fields. This collaboration aims to strengthen the self-reliant and internationally competitive capabilities of China's life-science industry chain, providing more efficient and stable biotech solutions for research and medical sectors.

Ordering Information

REF No.	Product Name	Specs
EG25305S	Collagenase I	100 mg
EG25305M	Collagenase I	1 g
EG25306S	Collagenase II	100 mg
EG25306M	Collagenase II	1 g
EG25308S	Collagenase IV	100 mg
EG25308M	Collagenase IV	1 g

Best Enzymes Biotech Co., Ltd.

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