Active Recombinant hyaluronidase

Cat. No. hyaluronidase-27 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is a recombinant hyaluronidase expressed by Pichia pastoris. It belongs to the third class of hyaluronidases and is an endo-β-N-acetylglucosaminidase. It can catalyze the hydrolysis of the β-1, 4 glycosidic bond in hyaluronic acid, yielding a final product with an N - acetylglucosamine residue at the reducing end. This enzyme has high substrate adaptability and can hydrolyze chondroitin, chondroitin sulfate, and dermatan sulfate in addition to hyaluronic acid. Residual Host Cell Protein: <50 ppm Residual Host Cell DNA: <100 pg/mg pH: 4.5-6.0 Inhibitor: Fe2+Fe3+Zn2+Cu2+Heparin, Aurintricarboxylic acid, Sulfuric acid, Nitric acid, Acetylated hyaluronic acid, Cellulose sulfate, Bile, etc.
Source	Yeast
Form	Lyophilized
Purity	≥ 95% by SDS-PAGE
Bio-activity	≥ 60 U/μg
Advantages	1. High batch stability: Effectively avoids differences between batches, and the experimental results have high reproducibility. 2. High purity: The purity is > 95%, and there is no contamination by other proteases. 3. High stability: Lyophilized, stable at 2-8 centigrade. 4. No animal-derived ingredients: It is recombinantly expressed and contains no animal-derived components at all. 5. High activity: > 60000 U/mg, which is much higher than hyaluronidase extracted from animal testes.

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Unit definition	One unit (U) of the enzyme is defined as the amount that causes a 0.33% change in transmittance per minute in a 2.0 mL reaction mixture at 37 centigrade and pH 5.35 (measured over a period of 45 minutes).
Usage	1. The optimal pH ranges from 4.5 to 6.0. 2. Common inhibitors include Fe2+, Fe3+, Zn2+, Cu2+, heparin, aurintricarboxylic acid, sulfuric acid, nitric acid, acetylated hyaluronic acid, cellulose sulfate, and bile. 3. It can be used in combination with collagenase for the digestion of tissues and organs.
Applications	1. Hydrolyze hyaluronic acid. 2. Digest tissues such as the mammary gland, heart, and testis.
Note	1. Try to avoid freeze-thaw cycles of this product after receipt; 2. Please wear lab coat and disposable gloves when using; 3. This product should not be used directly for clinical diagnosis and treatment.
Stability	This product should be stored at 2-8 centigrade and can be stored for at least 12 months.
Storage	At 2-8 centigrade
Shipping	Ice pack
Reconstitution	Ultrapure water

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