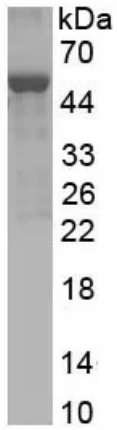
Active Hyaluronidase (HAase)

Catalog#:PHH12629

概述（Summary）

别称（Alternative Names）	Hyaluronic Lase; Hyaluroniclase
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Phe22-Trp435】
Accession #	Q12794
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	47.6 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	May have a role in promoting tumor progression. May block the TGFB1-enhanced cell growth.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

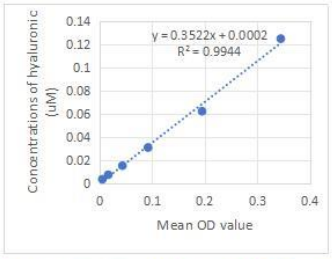


Figure 1. The standard curve of hyaluronic acid

OD600	hyaluronic acid (uM)
0.3439	0.125
0.1946	0.0625
0.092	0.03125
0.0435	0.015625
0.0166	0.0078125
0.0054	0.00390625

One unit of enzyme activity is defined as the 1 μg of enzyme required to convert 1 pmol of hyaluronic acid in 1min.

Specific Activity (pmol/min/μg)= $\frac{\Delta OD * F}{T * N}$

△OD=Adjusted for Substrate Blank

F=Conversion Factor (convert from standard curve of hyaluronic acid)

T= Time

Hyaluronidase (HAase) is a general term for enzymes that can hydrolyze hyaluronic acid. It is an enzyme that can reduce the activity of hyaluronic acid in the body, thereby improving the fluid permeability in tissues. When used in the human body, it can temporarily reduce the viscosity of the intercellular matrix, promote subcutaneous infusion, locally accumulated exudate or blood to accelerate diffusion and facilitate absorption, and is an important drug dispersant. Clinically used as a drug penetrating agent to promote drug absorption, promote local edema or hematoma dissipation after surgery and trauma. Human HAase consists of 435 amino acids which contains a signal peptide of 1-21 amino acids and it shares 74% and 75% amino acid sequence homology with mouse and rat respectively. The activity assay of recombinant human HAase was measured by its ability to hydrolyze the substrate hyaluronic acid. The rhHAase was diluted to 0.5 ug/ml in 8.46 mM NaH2PO4, 11.54 mM Na2HPO4, 77 mM NaCl, 0.1 mg/ml BSA, pH 7. 50 ul 0.5 ug/ml rhHAase was added into the microplate and start the reaction by adding 50 μL of 0.3 mg/ml substrate which was diluted in 300mM NaH2PO4, pH 5.35. Incubated at 37 °C for 5min and add 50 ul reaction mixture to 250 ul 1 mg/ml BSA in 24 mM sodium acetic, 79 mM acetic acid, pH 3.75. Incubated at room temperature for 10min and read at a wavelength of 600 nm. The specific activity of recombinant human HAase is >30 pmol/min/μg.

注意事项（Note）

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