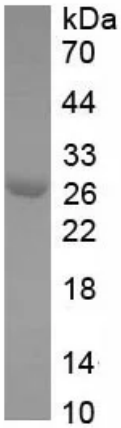
Active Trypsin (TRY)

Catalog#:PPV12302

概述（Summary）

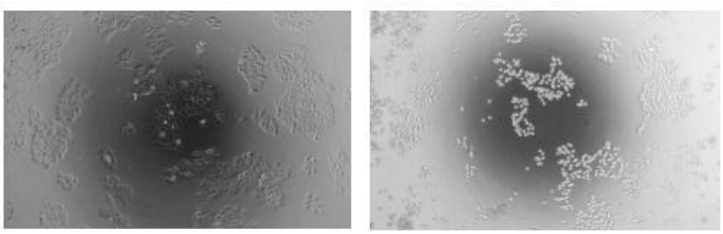
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Phe1-Asn231】
Accession #	P00761
表达宿主（Host）	Yeast
种属（Species）	Sus scrofa; Porcine (Pig)
预测分子量（Predicted MW）	25.4 kDa
制剂（Form）	Lyophilized from a 0.2 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.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



A B

Figure 1. Digestion of HepG2 cells after stimulated with Trypsin
(A) HepG2 cells cultured in DMEM without recombinant pig trypsin.
(B) HepG2 cells digested with 46.9 ug/ml recombinant pig trypsin for 50 minites.

Trypsin is a serine protease from the PA clan superfamily, found in the digestive system of many vertebrates, where it hydrolyzes proteins. Trypsin cuts peptide chains mainly at the carboxyl side of the amino acids lysine or arginine. It is used for numerous biotechnological processes. The connection between animal cells is a specific connection formed by the differentiation of the plasma membrane (cell membrane) between adjacent cells. The plasma membrane is mostly composed of protein-lipid-protein unit membrane, and the proteins on the plasma membrane are mostly involved in the connection. Thus, the digestion of adherent cells HepG2 was to detect the bioactivity of recombint pig trypsin. HepG2 cells were seeded into 96-well plates at a density of 4,000 cells/well with 10% serum standard DMEM overnight. Various concentrations of recombinant pig trypsin was added into the HepG2 after washed by PBS buffer. Cells were observed by inverted microscope after a period of time cultured at 37℃. The result was shown in Figure 1. It was obvious that recombinant pig trypsin can digest the HepG2, the minimum protein concentration was 46.9 ug/ml.

注意事项（Note）

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