

## Active Recombinant trypsin similar, Phenol Red Labeled

**Cat. No.** trypsin-41    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	<p>Recombinant trypsin similar is derived from microorganisms, obtained through microbial fermentation and prepared via sterile filtration. It is manufactured in an environment compliant with GMP regulations, with no animal-derived raw materials added during the production process, ensuring extremely high biosafety.</p> <p>Characterized by gentler digestion and low cytotoxicity, it is particularly suitable for the digestion of sensitive cells, such as organoids and stem cells. pH 7.2-7.5 Osmolarity 270-320 mOsm/kg Mycoplasma assay Negative Microbiological assay Negative</p>
<b>Description</b>	<p>Microbial-derived trypsin analog that recognizes lysine or arginine residues and cleaves at their C-termini. It is free of animal-derived components and animal-sourced viruses (e.g., swine influenza virus, porcine parvovirus). Inherently devoid of chymotrypsin activity, it serves as a safe and effective substitute for porcine or bovine trypsin. The enzyme acts gently on cells during digestion, exhibits stable enzymatic activity, and is easy to store.</p>
<b>Purity</b>	<p>&gt; 95%</p>
<b>Bio-activity</b>	<p>≥ 750 USP U/mL</p>
<b>Endotoxin</b>	<p>&lt; 1.0 EU/mL</p>
<b>Usage</b>	<p>Pre-warm Recombinant trypsin similar and complete medium at 37 centigrade before use. Discard the supernatant of the culture medium. Wash the cells with an</p>

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appropriate amount of DPBS, and then discard the DPBS. Add an appropriate amount of Recombinant trypsin similar (0.5 ml per 10 cm<sup>2</sup>) and incubate at 37 centigrade until the cells detach. Add 5-10 mL of pre-warmed complete medium, gently mix the cells, transfer the cell suspension to a sterile 15 ml centrifuge tube, and centrifuge at 100 g for 5-10 minutes. Discard the supernatant and add an appropriate amount of complete medium for cell culture.

**Applications**

Dissociation of adherent cells

**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

**Storage Buffer**

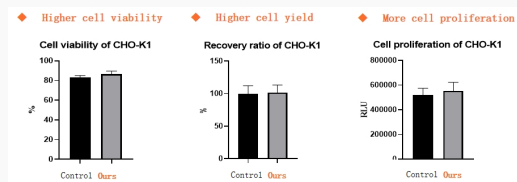
DPBS solution (It contains 1.1mM EDTA, 100mg/L Phenol Red)

**Concentration**

0.025 mg/mL

**Shipping**

Ice pack

**HO-K1 Cell Digestion**


CHO-K1 cells were digested with trypsin-like enzyme (1x) from a well-known brand

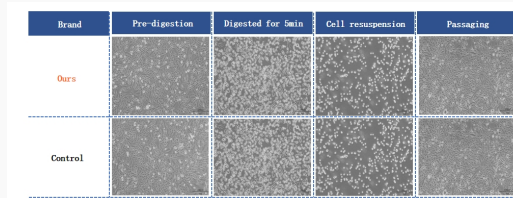
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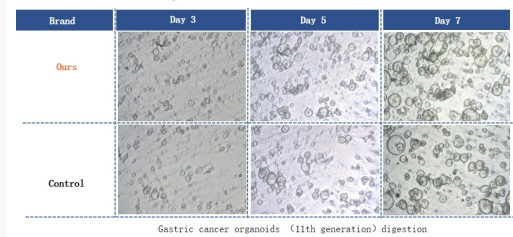
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and our 0.025 mg/mL recombinant trypsin similar, respectively. Cell viability was calculated after digestion at 37 centigrade for 5 min; After digestion, cell recovery ratio was calculated; Then cells were cultured to a certain density after inoculation into 96-well plates, and cell proliferation was detected.

### CHO-K1 cell digestion



### Gastric cancer organoids (11th generation) digestion



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