



Recombinant Trypsin (Pharmacopoeia Grade)

Catlog Number: PE-1482

• Overview

Introduction: Trypsin specifically cleaves the C-terminal peptide bond of lysine and arginine, allowing it to degrade intercellular binding proteins. Recombinant porcine trypsin has an amino acid sequence consistent with porcine pancreas-derived trypsin and is expressed through recombinant E. Coli. This recombinant trypsin can replace the traditional extraction method for use in vaccines, stem cell therapy, immune cell therapy, drug screening, antibody production, and other cell digestion processes. Enzyme activity can be inhibited by inhibitors such as aprotinin and soybean trypsin inhibitor.

Product Advantage: Meets pharmacopoeia standards: meets the relevant criteria for recombinant trypsin in the pharmacopoeia.

Without animal origin: recombinant production, production process does not use any raw materials of animal origin. No exogenous virus contamination, safe to use.

Quality: mass production, can ensure stable continuous batch production;

Products there is no difference between batches, quality.

Purity: Recombinant production, free of miscellaneous enzymes, host proteins and DNA residues in accordance with pharmacopoeia standards.

Freeze-dried powder: easy to store and transport.

Compliance with regulatory requirements: production equipment and production environment comply with relevant regulatory requirements, the production process is fully followed NSF ISO 9001: 2015 quality system and comply GMP guiding principles.

Quality documents complete: according to customer requirements, can provide relevant regulatory support documents.

Method of Use: 1 mM HCl solubilized, the recombinant trypsin concentration was 1-10 mg/ml. When used, the amount of enzyme: target protein= 1: 50-1: 1000, the most suitable pH is 7.0-11.0.



CD BioSustainable

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• Specifications

Sizes: 10mg; 100mg; 1g

CAS: 9002-07-7

EC: 3.4.21.4

Source: Recombinant Porcine Trypsin, gene engineering production, E. Coli expression.

Protein Sequence: Amino acid sequence consistent with porcine pancreas-derived trypsin.

Appearance: White or off-white crystalline powder

Identification: Purple

Specific Activity: ≥ 3800 (U/mg protein)

Purity: (RP-HPLC) beta-trypsin $\geq 70\%$, alpha-trypsin $\leq 20\%$

Escherichia Coli Thallus Protein Residue: ≤ 0.01 percent

Host Cell DNA Residues: ≤ 10 ng/mg

Vitality Unit: 25°C, pH 7.6, reaction system 3.2ml (1 cm optical path), enzymatic hydrolysis per minute BAEE make 253nm 0.003 is defined as avitality units.

• Package and Storage

Storage: Storage temperature: 2-8°C

Storage stability: recombinant trypsin lyophilized powder stored in 2-8°C, 24 months of stability; 1 mM hydrochloric acid or 50 mM acetic acid and store in -20°C, repeated freezing and thawing 10 times, no loss of activity.

Transportation: Transport stability: blue ice insulation transport, stable activity.

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