

Trypsin from Porcine, Recombinant

Cat. No. NATE-1148

Lot. No. (See product label)

Introduction

Description Trypsin (EC 3.4.21.4) is a serine protease from the PA clan superfamily, found in the

digestive system of many vertebrates, where it hydrolyses proteins. Trypsin is produced in the pancreas as the inactive protease trypsinogen. Trypsin cleaves peptide chains mainly at the carboxyl side of the amino acids lysine or arginine, except when either is followed by proline. It is used for numerous biotechnological

processes. The process is commonly referred to as trypsin proteolysis or

trypsinisation, and proteins that have been digested/treated with trypsin are said to $% \left(1\right) =\left(1\right) \left(1\right) \left($

have been trypsinized.

Applications Trypsin can be used to re-suspend cells adherent to the cell culture dish wall during

the process of harvesting cells. Trypsin can also be used to dissociate dissected cells (for example, prior to cell fixing and sorting). Trypsin is commonly used in biological research during proteomics experiments to digest proteins into peptides for mass spectrometry analysis, e.g. in-gel digestion. Trypsin is particularly suited for this, since it has a very well defined specificity, asit hydrolyzes only the peptide bonds in which the carbonyl group is contributed either by an Arg or Lys residue. Trypsin can also be used to dissolve bloodclots in its microbial form and treat inflammation in its pancreatic form. During the industrial production of insulin,

trypsin is necessary.

Synonyms α-trypsin; β-trypsin; cocoonase; parenzyme; parenzymol; tryptar; trypure;

pseudotrypsin; tryptase; tripcellim; sperm receptor hydrolase; Alpha-trypsin; Beta-

trypsin; EC 3.4.21.4; Trypsin; Acetyltrypsin

Product Information

Source Porcine

Appearance Colorless aqueous solution

EC Number EC 3.4.21.4

CAS No. 9002-07-7

Molecular Weight 24KDa (Determined by SDS-PAGE)

Purity >90% (by SDS-PAGE)

Activity 120 Units/mg protein

Buffer 20mM NaAc, pH3.5

Unit Definition One unit will produce an increase by 0.18 per min at 247nm, at pH8.1, at 25°C,

using TAME assubstrate, Reaction volume = 3.0 mL (1 cm light path).

Storage and Shipping Information

Storage 4°C, store at -20°C/-80°C for long-term preservation. Avoid multiple freeze-thaw

cycles.

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