Creative Enzymes®

Trypsin from Bovine, Recombinant

Cat. No. NATE-0724

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 have been trypsinized.
Applications	Trypsin has been used in a study to assess the use of animal protein-free products for passaging adherent human adipose-derived stromal/stem cells. TrypZean has also been used in a study to compare a recombinant trypsin with the porcine pancreatic extract on sperm used for the in vitro production of bovine embryos.
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

Species	Bovine
Source	Corn
Form	lyophilized powder
EC Number	EC 3.4.21.4
CAS No.	9002-07-7
Activity	> 3650 units/mg solid (USP)
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Defective AMN causes hereditary megaloblastic anemia 1, organism-specific biosystem; Defective CUBN causes hereditary megaloblastic anemia 1, organism-specific biosystem
Function	calcium ion binding; serine-type endopeptidase activity

Storage and Shipping Information

Storage	−20°C