Trypsin powder from bovine pancreas (1:250)

Cat# CC1013

Store at 2°C to 8°C

INTRODUCTION

The typical use for trypsin is in removing adherent cells from a culture surface. The concentration of trypsin necessary to dislodge cells from their substrate is dependent primarily on the cell type and the age of the culture. Trypsin 1X solutions can range from 0.025% to 0.5%. Trypsins have also been used for the re-suspension of cells during cell culture, in proteomics research for digestion of proteins and in various in-gel digestionsns. Additional applications include assessing crystallization by membrane-based techniques and in a study to determine that protein folding rates and yields can be limited by the presence of kinetic traps.

BIOCHEM/PHYSIOL ACTIONS

Trypsin cleaves peptides on the C-terminal side of lysine and arginine residues. The rate of hydrolysis of this reaction is slowed if an acidic residue is on either side of the cleavage site and hydrolysis is stopped if a proline residue is on the carboxyl side of the cleavage site. The optimal pH for trypsin activity is 7-9. Trypsin can also act to cleave ester and amide linkages of synthetic derivatives of amino acids. EDTA is added to trypsin solutions as a chelating agent that neutralizes calcium and magnesium ions that obscure the peptide bonds on which trypsin acts. Removing these ions increases the enzymatic activity.

PRODUCT INFORMATION

Form	Dry powder
Product size	5g , 25g
CAS No.	9002-07-7
Molecular weight	23.8 kDa

PRODUCT USE LIMITATION

These products are intended for research use only.