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Trypsin-2 Human

Trypsin-2 Human Recombinant
RCP2456

Product Overview

Name	Trypsin-2 Human

Description

Trypsin-2 Human Recombinant

Accession (Primary)	P07478

Introduction

Trypsin (EC3.4.21.4) is part of the serine protease family. Trypsin cleaves lysine and arginine at the C-terminal side of the peptide. The hydrolysis rate is slower if an acidic residue is on either sides of the cleavage site and no cleavage occurs if a proline residue is on the carboxyl side of the cleavage site. Trypsin optimum pH is pH-7 to 9. Trypsin will also hydrolyze ester and amide linkages of synthetic derivatives of amino acids such as: benzoyl L-arginine ethyl ester (BAEE), p-toluenesulfonyl- L-arginine methyl ester (TAME), tosyl-L-arginine methyl ester, N-α-benzoyl-L-arginine p-nitroanilide (BAPNA), L-lysyl-p-nitroanilide, and benzoyl-L-tyrosine ethyl ester (BTEE). Serine protease inhibitors that inhibit recombinant trypsin include TLCK (N-p-tosyl-L-lysine chloromethyl ketone), PMSF (phenylmethanesulfonyl fluoride), benzamidine, soybean trypsin inhibitor, and ovomucoid.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered lyophilized powder.

Formulation

The protein was lyophilized without any additives.

Stability

Recombinant Human Trypsin although stable at room temp for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Biological Activity

2,800 units/mg.

Solubility

It is recommended to reconstitute the lyophilized Human Trypsin in sterile 1mM HCl or 50mM HAC not less than 100

µg/ml, which can then be further diluted to other aqueous solutions.

Applications

Trypsin digestion: the suggested ratio is 1:50 to 1:1000 (w/w).

Unit Definition

One USP unit of trypsin activity will produce a Delta A253 of 0.003 per minute in a reaction volume of 3.0ml at pH7.6 and 25°C, with BAEE as a substrate (1cm light path).

Precautions

Trypsin-2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P07478)