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Recombinant Human Trypsin-2

CLPRO770
CLPRO770-2
CLPRO770-3

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.

Description: Recombinant Human Trypsin-2 is free from any animal and human sources. Recombinant Human Trypsin-2 expressed in E.Coli having a Mw of 24kDa is purified by standard chromatography techniques. Recombinant Human Trypsin-2 is free from foreign enzymes such as carboxypeptidase A & chymotrypsin. Recombinant Human Trypsin-2 is free from protease inhibitors such as PMSF and EDTA.

Source: *Escherichia Coli*.

Presentation: 1 mg (CLPRO770), 5 mg (CLPRO770-2), or 50 mg (CLPRO770-3), sterile filtered lyophilized powder. The protein was lyophilized without 10 mM Sodium Acetate buffer and 50 mM NaCl.

Solubility: It is recommended to reconstitute the lyophilized Human Trypsin in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Recombinant Human Trypsin although stable at room temp for 1 week, should be stored desiccated below -18C. 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.

Unit Definition: One BAEE unit will produce a Delta A253 of 0.001 per minute in a reaction volume of 3.0ml at pH7.6 at 25C (1cm light path). Trypsin digestion: suggested ratio (w:w) 1:20 to 1:1000 (Trypsin : Peptide).

Biological Activity: 10,000 BAEE units/mg powder.

Laboratory Reagent For Research Use Only

MW 03/01/17

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