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32-5140: Recombinant Human Trypsin-2

Description

Source : Escherichia Coli. 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. 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-alpha-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.

Product Info

Amount :	5 mg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The protein was lyophilized with 10mM Sodium Acetate buffer and 50mM NaCl.
Storage condition :	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.

Application Note

It is recommended to reconstitute the lyophilized Human Trypsin in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. 10,000 BAEE units/mg powder.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.