

Active Recombinant Porcine Trypsin Protein

Cat. No. Trypsin-01P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Porcine Trypsin is expressed in E.coli and purified by standard chromatography techniques.
Species	Porcine
Source	E.coli
Description	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.
Form	Sterile Filtered lyophilized powder.
Bio-activity	4500 USP units/mg protein.
AA Sequence	VGGYTCAANSIPYQVSLNSGSHFCGGSLINSQWVVSAAHCYKSRIQVRLGEHNIDVL EGNEQFINAAKIITHPNFNGNTLDNDIMLIKLS SPATLNSRVATVSLPRSCAAAGTECLI

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	SGWGNTKSSGSSYPSSLQCLKAPVLSOSSCKSSYPGQITGNMICVGFLEGGKDSCQ GDSGGPVVCNGQLQGIVSWGYGCAQKNKPGVYTKVCNYVNWIIQQTIAAN
Unit Definition	One USP unit of trypsin activity will produce a Delta A253 of 0.003 per minute in a reaction volume of 3.0 ml at pH7.6 and 25 centigrade, with BAEE as a substrate (1 cm light path).
Applications	Trypsin digestion: the suggested ratio is 1:50 to 1:1000 (w/w).
Notes	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Recombinant Porcine Trypsin although stable at room temp for 1 week, should be stored desiccated below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Preservative	The Porcine Trypsin was lyophilized with mannitol as preservative.
Reconstitution	It is recommended to reconstitute the lyophilized Porcine Trypsin in sterile 1mM HCl or 50mM HAC not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.
Shipping	Shipped at Room temperature.
GENE INFORMATION	
Official Symbol	Trypsin
Synonyms	Trypsin

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