

## Active Recombinant Porcine Trypsin

**Cat. No.** Trypsin-853P    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Porcine Trypsin is free from any animal and human sources. Recombinant Porcine Trypsin expressed in Yeast and purified by standard chromatography techniques. Recombinant Porcine Trypsin is free from foreign enzymes such as carboxypeptidase A & chymotrypsin. Recombinant Human Trypsin is free from protease inhibitors such as PMSF and EDTA.

**Species**                      Pig

**Source**                        P.pastoris

**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- $\alpha$ -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.

**Form**                              Sterile Filtered clear liquid solution. The Porcine Trypsin (2.98mg/ml) is formulated with 1mM HCl and 20mM CaCl<sub>2</sub>, pH-3.

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<b>Bio-activity</b>	3,394 BAEE units/mg powder.
<b>AA Sequence</b>	VGGYTCAANSIPYQVSLNSGSHFCGGSLINSQWVVSAAHCYKSRIQVRLGEHNIDVL EGNEQFINA AKIITHPNFNGNTLDNDIMLIKLSPPATLNSRVATVSLPRSCAAAGTECL ISGWGNTKSSGSSYPSLLQCL KAPVLSOSSCKSSYPGQITGNMICVGFLEGGKDSC QGDSGGPVVVCNGQLQGIVSWGYGCAQKNKPGVYTKV CNYVNWII QQTIAAN.
<b>Stability</b>	Recombinant Porcine Trypsin should be stored at 2-8°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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