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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



Recombinant Porcine Trypsin

CLPRO787
CLPRO787-2
CLPRO787-3

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 Porcine Trypsin is expressed in E.coli and purified by standard chromatography techniques.

Source: *Escherichia Coli*.

Presentation: 1 mg (CLPRO787), 2.5 mg (CLPRO787-2), or 50 mg (CLPRO787-3), sterile filtered lyophilized powder. The Porcine Trypsin was lyophilized with mannitol as preservative.

Solubility: It is recommended to reconstitute the lyophilized Porcine Trypsin in sterile 1mM HCl or 50mM HAC not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Recombinant Porcine 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.**

Biological Activity: 4500 USP units/mg protein.

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).

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

Amino Acid Sequence:

VGGYTCAANSIPYQVSLNSGSHFCGGSLINSQWVVSAAHCYKSRIQVRLGEHNI
DVLEGNEQFINAAKIITHPNFNGNTLDNDIMLIKLSPPATLNSRVATVSLPRSCA
AAGTECLISGWGNTKSSGSSYPSSLQCLKAPVLSDSCKSSYPGQITGNMICVGF
LEGGKDSCQGDSSGPPVVCNGQLQGIVSWGYGCAQKNKPGVYTKVCNYVNW
IQQTIAAN

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4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
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1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
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