

## Native Porcine Trypsin

<b>Catalog No.</b>	CSI19709A CSI19709B	<b>Quantity:</b>	10 g 100 g
<b>Alternate Names:</b>	Serine Protease, Trypsinogen		
<b>Description:</b>	Trypsin is a serine protease found in the digestive system of many vertebrates, where it hydrolyzes proteins. It is produced in the pancreas as the inactive proenzyme, Trypsinogen. Trypsin is one of the three principal digestive proteinases, the other two being Pepsin and Chymotrypsin. In the digestive process, Trypsin acts with the other proteinases to break down dietary protein molecules to their component peptides and amino acids. Trypsin continues the process of digestion (begun in the stomach) in the small intestine where a slightly alkaline environment (about pH 8) promotes its maximal enzymatic activity. It cleaves peptide chains mainly at the Carboxyl end of the amino acids Lysine or Arginine, except when followed by a Proline.		
<b>Protein Accession No:</b>	P00761		
<b>Source:</b>	Porcine Pancreas		
<b>Molecular Weight:</b>	23.5 kDa		
<b>Formulation:</b>	Lyophilized with Lactose		
<b>Purity:</b>	Partially Purified Fat - ≤ 6.0% Residual Moisture - ≤ 6.0% (loss on drying)		
<b>Bacterial Contaminants:</b>	<i>E. coli</i> - negative <i>Salmonella</i> sp. - negative Aerobic Plate Count - ≤ 10,000 CFU/g		
<b>Biological Activity:</b>	Cleavage of peptide chains on carboxyl side of arginine (Arg/R) or lysine (Lys/K), except when followed by proline (Pro/P).		
<b>Specific Activity:</b>	200 - 215 U/mg (8.0 - 8.6 x USP)		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute with Saline Buffer, PBS, or deionized water.		
<b>Storage &amp; Stability:</b>	Store lyophilized product at 2-8°C for up to 1 year.		
<b>Certification:</b>	The animal source of this product was collected at a USDA licensed establishment. The animals received ante and post-mortem health inspections at the abattoir by a US FSIS inspector and they were apparently free from infectious and contagious diseases. All donor animals were sourced from the United States.		

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