

PRSS1

Recombinant Bovine Trypsin

Catalog No.	CRT157A	Quantity:	1 mg
	CRT157B		10 mg
	CRT157C		100 mg

Alternate Names: Serine protease 1

Description: **Recombinant Bovine Trypsin is free from any animal and human sources.** Trypsin is a serine protease that hydrolyses proteins, it is found in the digestive system of numerous vertebrates. Trypsin is produced as the inactive proenzyme trypsinogen in the pancreas. Trypsin cleaves peptide chains at the carboxyl side of the amino acids lysine and arginine, except when either is followed by proline. Trypsin is secreted into the duodenum, where it acts to hydrolyses peptides into amino acids, which is necessary for the uptake of protein in the food even though peptides are smaller than proteins. The optimal operating pH for Trypsins is about 8 and about 37°C temperature. In cystic fibrosis disease there is a deficiency in transport of trypsin and other digestive enzymes from the pancreas.

UniProt ID: P00760

Source: Produced in transgenic corn plants, *Zea mays*

Formulation: Lyophilized from a sterile filtered solution, without additives.

Purity: > 90% as determined by SDS-PAGE.

Specific Activity: 4,313 Units/mg solid (USP units)

Reconstitution: It is recommended to reconstitute the lyophilized Bovine Trypsin in sterile distilled water at ≥ 0.10 mg/ml, which can then be further diluted to other aqueous solutions.

Storage & Stability: Store at 2-8°C. **DO NOT FREEZE.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.