

Bioactive

# Trypsin, Modified, Sequencing Grade

Catalog # P5320

Size 4 x 25 ug

## Specification

<b>Product Description</b>	Lyophilized. Purified. TPCK treated. Autolysis products free.
<b>Biological function</b>	Trypsin is a pancreatic serine protease with substrate specificity based upon positively charged lysine and arginine side chains. It is derived from inactive precursor zymogen, trypsinogen.
<b>Host</b>	Bovine
<b>Form</b>	Lyophilized
<b>Preparation Method</b>	Native protein purified from Bovine Pancreas. Further chemically modified to promote stability and purified to remove autolysis fragments, resulting in a highly stable trypsin product resistant to autolysis while retaining specificity.
<b>Activity</b>	$\geq 4$ units per mg protein. One Unit is equivalent to one micromole of TCA soluble products, measured as tyrosine, released from 2% casein per minute, in 0.05 M Tris-HCl, pH 7.6, at 37°C, in a 30 minute reaction.
<b>Recommend Usage</b>	Tissue dissociation (combined with other enzymes); Cell harvesting by trypsinization; Mitochondria isolation; in vitro studies of proteins; Various hemagglutination procedures; Sample preparation for flow cytometric DNA analysis; Tryptic mapping; Fingerprinting and sequencing work; Environmental monitoring; Subculturing cells; Cleavage fusion proteins; Generating glycopeptides from purified glycoproteins.
<b>Storage Instruction</b>	Store at -20°C on dry atmosphere.

## Applications

- Enzyme Activity

## Gene Info — PRSS2

Entrez GeneID

[282603](#)

Protein Accession#	<a href="#">Q29463</a>
Gene Name	PRSS2
Gene Alias	TRYP8
Gene Description	protease, serine, 2 (trypsin 2)
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	-
Other Designations	pancreatic anionic trypsinogen protease, serine, 2

## Gene Info — PRSS1

Entrez GeneID	<a href="#">615237</a>
Protein Accession#	<a href="#">Q29463</a>
Gene Name	PRSS1
Gene Alias	TRY1
Gene Description	protease, serine, 1 (trypsin 1)
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	-
Other Designations	trypsin X3

## Publication Reference

- [Optimal computational comparison of mass spectrometric peptide profiles of alternative hydrolysates from the same starting material.](#)

Holton TA, Dillon ET, Robinson A, Wynne K, Denis C. Shields DC.

LWT-Food Science and Technology 2016 Nov; 73:296.

Application: Enzyme, Recombinant protein