

Active Native Human PRSS1

Cat. No. PRSS1-30745TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native mature Trypsin from human pancreas.
Species	Human
Source	Human Pancreas
Description	This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7.
Form	Lyophilised:Reconstitute in 56.5µl 2mM HCl. Use product immediately after bringing to neutral pH to avoid auto-degradation.After reconstitution, aliquot and store at -20oC.Avoid multiple freeze/thaw cycles.
Bio-activity	Activity: >2.5units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one umole of N-Benzyl-L-arginine-pNA per minute at 25oC in 200mM Tris-HCl, pH 7.8, 20mM CaCl2.
Purity	>95% by SDS-PAGE
Storage	Store at -20°C . Stable for 12 months at -20°C

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Storage Buffer	Preservative: None
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRSS1 protease, serine, 1 (trypsin 1) [Homo sapiens]
Official Symbol	PRSS1
Synonyms	PRSS1; protease, serine, 1 (trypsin 1); TRY1; trypsin-1; beta-trypsin; trypsinogen 1; trypsinogen A; digestive zymogen; cationic trypsinogen; nonfunctional trypsin 1; TRP1; TRY4; TRYP1; FLJ57296; MGC120175; MGC149362; DKFZp779A0837;
Gene ID	5644
mRNA Refseq	NM_002769
Protein Refseq	NP_002760
MIM	276000
UniProt ID	P07477
Chromosome Location	7q34
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Neuroactive ligand-receptor interaction, organism-

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specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;

Function

metal ion binding; peptidase activity; serine-type endopeptidase activity;

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