

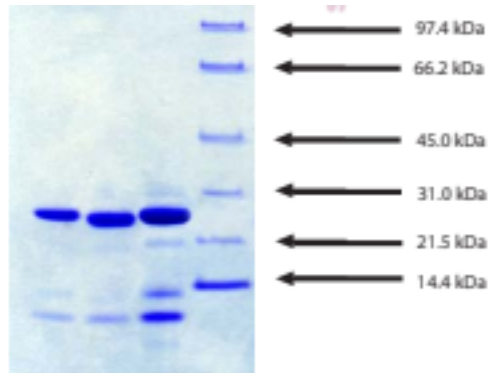
PRSS1

Native Human Trypsin-1, Pancreas

Catalog No.	CSI19831A CSI19831B	Quantity:	100 µg 1.0 mg
Alternate Names:	Serine protease 1, Beta-trypsin, Cationic trypsinogen, Trypsin I		
Description:	Hydrolyzes peptides, amides, and ester bonds involving the carboxyl groups of L-arginine or L-lysine. Increased serum values of this enzyme and/or its zymogen (Trypsinogen) have been found in patients with Cystic Fibrosis. Trypsinogen has three isoforms: Cationic (Trypsinogen 1), Anionic (Trypsinogen 2, MW 22,500), and Mesotrypsinogen (Trypsinogen 3, MW, 25,000). This trypsin is the Cationic form.		
UniProt ID:	P07477		
Source:	Human Pancreas		
Concentration:	~ 1 mg/ml, prior to lyophilization, lot specific		
Volume:	Lot specific, prior to lyophilization		
Molecular Weight:	25 kDa		
Formulation:	Lyophilized from 2 mM HCl		
Purity:	>95% by SDS-PAGE analysis No chymotrypsin activity when assayed using N-succinyl-L-alanyl-L-alanyl-L-prolyl-L-phenylalanine-p-nitroanilide.		
Extinction Coefficient:	$E^{0.1\%}_{280\text{nm}} = 1.45$		
Biological Activity:	One unit is defined as the amount of enzyme that hydrolyzes one µmole of N-benzoyl-DL-arginine-pNA per min. at 25°C in 200mM Tris-HCl, 20mM CaCl ₂ , pH 7.8		
Specific Activity:	≥ 2.5 U/mg protein prior to lyophilization.		
Reconstitution:	Centrifuge vial briefly before opening to ensure complete recovery of product. Reconstitute with 2 mM HCl to the original volume. Mix gently, allow sufficient time to completely dissolve..		
Storage & Stability:	Store at -80°C until expiration date. Upon reconstitution, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Country of Origin:	USA		
Infectious Disease Statement:	Prepared from tissue shown to be non reactive for HIV-1/HCV/HBV by NAT; Syphilis, HBcAg, HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.		



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