

PRSS1

Native Human Trypsin-1

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| Catalog No. | CSI19831A CSI19831B | Quantity: | 100 µg 500 µg |
| Alternate Names: | Beta-trypsin, Cationic trypsin, Serine protease 1, 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 | | |
| Gene ID: | 5644 | | |
| Source: | Human Pancreas | | |
| Molecular Weight: | 25 kDa | | |
| Formulation: | Lyophilized from a salt-free buffer | | |
| Purity: | >95% by SDS-PAGE analysis | | |
| Extinction Coefficient: | $E^{0.1\%}_{280nm} = 1.45$ | | |
| Biological Activity: | One unit is defined as the amount of enzyme that hydrolyzes one µmole of N-benzoyl-DL-arginine-pNA per minute at 25°C in 200 mM Tris-HCl pH 7.8 + 20 mM CaCl ₂ | | |
| Specific Activity: | 2.5 U/mg protein | | |
| Reconstitution: | Reconstitute with deionized water to a concentration of 0.1-1.0 mg/ml. | | |
| Storage & Stability: | Store at -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles. | | |
| Certification: | Prepared from tissue shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests. | | |

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