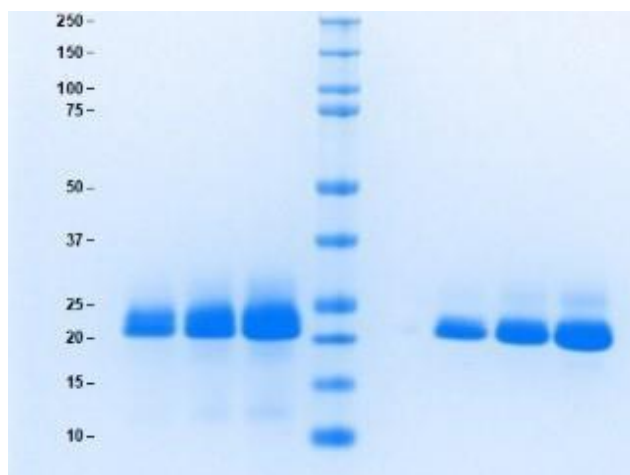


## Trypsin from Human Pancreas

### np001008

#### Product 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 product is the cationic form.



#### SDS-PAGE

4-12% Bis-Tris gel, 1x MES

1. Trypsin 5 µg (Heated/Reduced)
2. Trypsin 10 µg (Heated/Reduced)
3. Trypsin 20 µg (Heated/Reduced)
4. Standard
5. Blank
6. Trypsin 5 µg (Not Heated/Non-Reduced)
7. Trypsin 10 µg (Not Heated/Non-Reduced)
8. Trypsin 20 µg (Not Heated/Non-Reduced)

#### Protein Determination:

Extinction Coefficient (E) = 1.45 (0.1% at 280 nm, 1cm pathway)

#### Stability and storage

Store at -20°C long term (>1 year). Upon reconstitution, it is recommended to aliquot. Avoid freeze/thaw cycle.



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**Molecular Weight:**

21,000 and 23,000 Da.

**Buffer:**

Salt-free lyophilized from 2 mM HCl.

**Physical Specifications:**

Form: Lyophilized

Purity:  $\geq 95\%$  by SDS-PAGE

**Product Datasheet**

<b>Product:</b>	Trypsin from Human Pancreas
<b>Form:</b>	Lyophilized
<b>Available Packaging:</b>	100 $\mu\text{g}$ and 1 mg. Larger aliquots available on request
<b>Buffer:</b>	Salt-free lyophilized from 2 mM HCl.
<b>Purity:</b>	$\geq 95\%$ by SDS-PAGE
<b>Activity:</b>	2.5units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one $\mu\text{mole}$ of N-benzoyl-DL-arginine-pNA per minute at 25°C in 200mM Tris-HCl, pH7.8, with 20mM $\text{CaCl}_2$ .
<b>Molecular Weight:</b>	21,000 and 23,000 Da
<b>Protein Determination:</b>	Extinction Coefficient (E) = 1.45(0.1% at 280nm, 1cm pathway)
<b>Source:</b>	Human Pancreas
<b>Testing:</b>	Donor material is obtained from suppliers that perform a comprehensive infectious disease screening panel. Pancreas-derived materials are obtained from donors screened by the supplier for HIV-1/2, HBV, HCV, HBsAg, and syphilis (RPR). Detailed testing results are retained and can be reviewed on request.