

Trypsin Protein, Pig (*P. pastoris*, His)

Cat. No.:	HY-P71773
Synonyms:	Trypsin; EC 3.4.21.4
Species:	Pig
Source:	<i>P. pastoris</i>
Accession:	P00761 (I9-N231)
Gene ID:	/
Molecular Weight:	Approximately 25.5 kDa

PROPERTIES

AA Sequence	<p> I V G G Y T C A A N S I P Y Q V S L N S G S H F C G G S L I N S Q W V V S A A H C Y K S R I Q V R L G E H N I D V L E G N E Q F I N A A K I I T H P N F N G N T L D N D I M L I K L S S P A T L N S R V A T V S L P R S C A A A G T E C L I S G W G N T K S S G S S Y P S L L Q C L K A P V L S D S S C K S S Y P G Q I T G N M I C V G F L E G G K D S C Q G D S G G P V V C N G Q L Q G I V S W G Y G C A Q K N K P G V Y T K V C N Y V N W I Q Q T I A A N </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Trypsin is a digestive endopeptidase that catalyzes the hydrolysis of peptide bonds on the carboxyl side of lysine or arginine residues. Trypsin is synthesized in the acinar cells of the pancreas as an inactive precursor, trypsinogen. Trypsin is converted to the active enzyme in the gut by the highly specific protease enterokinase. Trypsin in turn activates its own zymogen as well as the other pancreatic zymogens once activated. Trypsin plays pivotal roles in food digestion as well as in cellular signal transduction mediated through proteolytic activation of PARs^{[1][2]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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