PRSS3/Trypsin-3 Protein, Human (His)

Cat. No.:	HY-P71456
Synonyms:	Brain trypsinogen; Mesotrypsin; Mesotrypsinogen; MTG; Pancreatic trypsinogen III; Protease, serine, 3; PRSS3; PRSS4; Serine protease 3; Serine protease 4; T9; TRY3; TRY3_HUMAN; TRY4; Trypsin 3; Trypsin III; Trypsin IV; Trypsin-3; Trypsinogen 4; Trypsinogen 5; Trypsinogen IV
Species:	Human
Source:	E. coli
Accession:	P35030 (I81-N303)
Gene ID:	5646
Molecular Weight:	Approximately 28.2 kDa

PROPERTIES

AA Sequence	I V G G Y T C E E N S L P Y Q V S L N S G S H F C G G S L I S E Q W V V S A A H C Y K T R I Q V R L G E H N I K V L E G N E Q F I N A A K I I R H P K Y N R D T L D N D I M L I K L S S P A V I N A R V S T I S L P T T P P A A G T E C L I S G W G N T L S F G A D Y P D E L K C L D A P V L T Q A E C K A S Y P G K I T N S M F C V G F L E G G K D S C Q R D S G G P V V C N G Q L Q G V V S W G H G C A W K N R P G V Y T K V Y N Y V D W I K D T I A A N
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4 or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	PRSS3, also known as Trypsin-3, is a digestive protease with a distinct substrate specificity, as it cleaves proteins preferentially after an Arginine residue. This trypsin-like enzyme plays a crucial role in the digestive process by breaking down dietary proteins into smaller peptides. Notably, PRSS3 exhibits proteolytic activity towards Kunitz-type trypsin inhibitors, suggesting its involvement in regulatory interactions with endogenous protease inhibitors. The enzyme's ability to cleave proteins at specific sites underscores its importance in protein digestion, and its interactions with trypsin inhibitors highlight its role in the intricate balance of protease activity within cellular environments. Ongoing research may

	reveal further insights into the physiological implications and regulatory functions of PRSS3 in digestive physiology.

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