

Anionic trypsin protein, Dog (His-SUMO)

Cat. No.:	HY-P71480
Synonyms:	; Anionic trypsin; EC 3.4.21.4
Species:	Dog
Source:	E. coli
Accession:	P06872 (241-247S)
Gene ID:	100686744
Molecular Weight:	Approximately 40.0 kDa

PROPERTIES

AA Sequence	<pre> I V G G Y T C E E N S V P Y Q V S L N A G Y H F C G G S L I S D Q W V V S A A H C Y K S R I Q V R L G E Y N I D V L E G N E Q F I N S A K V I R H P N Y N S W I L D N D I M L I K L S S P A V L N A R V A T I S L P R A C A A P G T Q C L I S G W G N T L S S G T N Y P E L L Q C L D A P I L T Q A Q C E A S Y P G Q I T E N M I C A G F L E G G K D S C Q G D S G G P V V C N G E 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 F V D W I Q S T I A A N S </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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>Anionic trypsin (serine protease 2, PRSS2) is a member of trypsin family of serine proteases which cleave peptide bonds that follow lysine or arginine residues. PRSS2 is part of a cluster of trypsinogen genes that are located within the T cell receptor beta locus. PRSS2 is found at high levels in pancreatic juice and its upregulation is a characteristic feature of pancreatitis. PRSS2 has also been found to activate pro-urokinase in ovarian tumors, suggesting a function in tumor invasion. In addition, PRSS2 is able to cleave across the type II collagen triple helix in rheumatoid arthritis synovitis tissue, potentially</p>
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participating in the degradation of type II collagen-rich cartilage matrix^{[1][2][3]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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