

## Anionic trypsin-2 Protein, Rat (P.pastoris, His)

<b>Cat. No.:</b>	HY-P71774
<b>Synonyms:</b>	Prss2; Try2; Anionic trypsin-2; EC 3.4.21.4; Anionic trypsin II; Pretrypsinogen II; Serine protease 2
<b>Species:</b>	Rat
<b>Source:</b>	P. pastoris
<b>Accession:</b>	P00763 (241-246N)
<b>Gene ID:</b>	25052
<b>Molecular Weight:</b>	Approximately 25.3 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> I V G G Y T C Q E N   S V P Y Q V S L N S   G Y H F C G G S L I   N D Q W V V S A A H C Y K S R I Q V R L   G E H N I N V L E G   N E Q F V N A A K I   I K H P N F D R K T L N N D I M L I K L   S S P V K L N A R V   A T V A L P S S C A   P A G T Q C L I S G W G N T L S S G V N   E P D L L Q C L D A   P L L P Q A D C E A   S Y P G K I T D N M V C V 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 L P D N P G V Y T K V C   N Y V D W I Q D T I   A A N </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Anionic trypsin-2 belongs to the trypsin family of serine proteases and encodes anionic trypsinogen. Anionic trypsin-2 is part of a cluster of trypsinogen genes that are located within the T cell receptor beta locus. Anionic trypsin-2 is found at high levels in pancreatic juice and its upregulation is a characteristic feature of pancreatitis. Anionic trypsin-2 has also been found to activate pro-urokinase in ovarian tumors, suggesting a function in tumor invasion <sup>[1][2][3][4]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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