Anionic Trypsin-1 (TRY1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anionic trypsin-1 (TRY1), Recombinant Protein
Full Product Name	Recombinant Rattus norvegicus Anionic trypsin-1
Product Gene Name	TRY1 recombinant protein
Product Synonym Names	Anionic trypsin IPretrypsinogen ISerine protease 1
Host	Yeast
Species Reactivity	Rat
Form/Format	20mM Tris-HCl based buffer, pH8.0
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	25.6kD
Sequence Positions	Full Length, 24
3D Structure	ModBase 3D Structure for P00762
Tag Info	His-tag
Related Product Information for TRY1 recombinant protein	MBS9422454 is a recombinant protein targeting TRY1. Also known as Recombinant Rattus norvegicus Anionic trypsin-1. Reactive in Rat. Host: Yeast.
Other Notes	Small volumes of TRY1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRY1. It may not necessarily be applicable to this product.

NCBI GI #	6981420
NCBI GeneID	24691
NCBI Accession #	NP_036767.1
UniProt Primary Accession #	P00762
UniProt Related Accession #	P00762
GenBank Nucleotide #	NM_012635.1
NCBI Official Full Name	anionic trypsin-1
NCBI Official Synonym Full Names	protease, serine 1
NCBI Official Symbol	Prss1
NCBI Official Synonym Symbols	Try1; PTRYI; RATPTRYI
UniProt Protein Name	Anionic trypsin-1
UniProt Synonym Protein Names	Anionic trypsin I; Pretrypsinogen I; Serine protease 1

Protein Family	Anionic trypsin
UniProt Gene Name	Prss1
UniProt Synonym Gene Names	Try1
NCBI Protein Information	anionic trypsin-1
NCBI Summary for TRY1	catalyzes the cleavage of Arg-Xaa, Lys-Xaa [RGD, Feb 2006]
UniProt Comments for TRY1	trypsin 1: Has activity against the synthetic substrates Boc-Phe- Ser-Arg-Mec, Boc-Leu-Thr-Arg-Mec, Boc-Gln-Ala-Arg-Mec and Boc-Val- Pro-Arg-Mec. The single-chain form is more active than the two- chain form against all of these substrates. Defects in PRSS1 are a cause of pancreatitis (PCTT). A disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks. Belongs to the peptidase S1 family. Protein type: EC 3.4.21.4; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q23 Cellular Component: extracellular region; extracellular space Molecular Function: calcium ion binding; serine-type endopeptidase activity Biological Process: collagen catabolic process; digestion; proteolysis; response to caffeine; response to nicotine; response to nutrient; response to organic substance
Research Articles on TRY1	**1.** These results indicate that mucin plays an important role in the preservation of the mucosal barrier and that ischemia but not digestive enzymes disturbs mucin integrity, while digestive enzymes actively mediate epithelial cell disruption.
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