

Recombinant Human PRSS1 protein, Fc/His-tagged

Cat. No. PRSS1-5894H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRSS1(Ala16-Ser247) fused with Fc/His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Ala16-Ser247
Description	Trypsin-1, also known as Beta-trypsin, Cationic trypsinogen, Serine protease 1, Trypsin I, TRP1, TRY1, TRY4, TRYP1 and PRSS1, is a member of the trypsin family of serine proteases. PRSS1 contains one peptidase S1 domain and binds one calcium ion per subunit. PRSS1 is secreted by the pancreas and cleaved to its active form in the small intestine. Trypsin-1 is active on peptide linkages involving the carboxyl group of lysine or arginine. Defects in PRSS1 are a cause of pancreatitis (PCTT), which characterized by the presence of calculi in pancreatic ducts.
Form	Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.
Molecular Mass	52.9 kDa
AA Sequence	APFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLINEQWVVSAGHCYKSRIQV RLGEHNIEVLEGNEQFINA AKIIRHPQYDRKTLNNDIMLIKLSRAVINARVSTISLPTA PPATGTKCLISGWGNTASSGADYPDELQCLDAP VLSQAKCEASYPGKITSNMFCVG FLEGGKDSCQGDSSGGPVVCNGQLQGVVSWGDGCAQKNKPGVYTKVYNYVKWI K

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NTIAANSVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT
 PEVTCVVVDVSHEDPE VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ
 DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSREEMTKNQVSLTC
 LVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGN V
 FSCSVMHEALHNHYTQKSLSLSPGKHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Please minimize freeze-thaw cycles.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [PRSS1 protease, serine, 1 \(trypsin 1\) \[Homo sapiens \]](#)

Official Symbol [PRSS1](#)

Synonyms PRSS1; protease, serine, 1 (trypsin 1); TRY1; trypsin-1; beta-trypsin; trypsinogen 1; trypsinogen A; digestive zymogen; cationic trypsinogen; nonfunctional trypsin 1; TRP1; TRY4; TRYP1; FLJ57296; MGC120175; MGC149362; DKFZp779A0837;

Gene ID [5644](#)

mRNA Refseq [NM_002769](#)

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Protein Refseq	NP_002760
MIM	276000
UniProt ID	P07477
Chromosome Location	7q34
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;
Function	metal ion binding; peptidase activity; serine-type endopeptidase activity;

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