

Active Recombinant Human PRSS2

Cat. No. PRSS2-850H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Trypsin-2 is free from any animal and human sources. Recombinant Human Trypsin-2 expressed in E.Coli having a Mw of 24kDa is purified by standard chromatography techniques. Recombinant Human Trypsin-2 is free from foreign enzymes such as carboxypeptidase A & chymotrypsin. Recombinant Human Trypsin-2 is free from protease inhibitors such as PMSF and EDTA.
Species	Human
Source	E.coli
Description	This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7.
Form	Sterile Filtered lyophilized powder. The protein was lyophilized with 10mM Sodium Acetate buffer and 50mM NaCl.
Bio-activity	10,000 BAEE units/mg powder.
Purity	Greater than 90% as determined by SDS-PAGE.
Unit Definition	One BAEE unit will produce a Delta A253 of 0.001 per minute in a reaction volume of 3.0ml at pH7.6 at 25C (1cm light path). Trypsin digestion: suggested ratio (w:w) 1:20

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to 1:1000 (Trypsin : Peptide).

Stability

Recombinant Human Trypsin although stable at room temp for 1 week, should be stored desiccated below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Reconstitution

It is recommended to reconstitute the lyophilized Human Trypsin in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name

PRSS2 protease, serine, 2 (trypsin 2) [Homo sapiens (human)]

Official Symbol

PRSS2

Synonyms

PRSS2; TRY2; TRY8; TRYP2; protease, serine, 2 (trypsin 2); trypsin-2; trypsin 2; trypsin II; trypsinogen 2; serine protease 2; anionic trypsinogen; protease serine 2 preproprotein; protease, serine, 2, preproprotein; NP_002761.1; EC 3.4.21.4

Gene ID

5645

mRNA Refseq

NM_002770

Protein Refseq

NP_002761

MIM

601564

UniProt ID

P07478

Chromosome

7q34

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Location	
Pathway	Activation of Matrix Metalloproteinases; Collagen degradation; Degradation of the extracellular matrix
Function	calcium ion binding; protein binding; serine-type endopeptidase activity

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