

Recombinant Human Protease, Serine, 2 (Trypsin 2) , His-tagged

Cat. No. PRSS2-316H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human PRSS2 encoding the human PRSS2 (NP_002761.1) precursor (Met 1- Ser 247) with a carboxy-terminal his tag was expressed in *HEK293*.

Species

Human

Source

HEK293

ProteinLength

1-247 a.a.

Description

Trypsin 2, also known as PRSS2, belongs to the trypsin serine protease family including Trypsin, PRSS1, PRSS2 and PRSS3. It consists of a signal peptide (residues 1-15), a pro region (residues 16-23), and a proteolytically active mature chain (residues 24-247). PRSS2 is secreted into the duodenum, hydrolysing peptides into their smaller building blocks, which is necessary for the uptake of protein in the food.. It is secreted by the pancreas in the form of inactive zymogen, trypsinogen and cleaved to its active form in the small intestine when the pancreas is stimulated by cholecystokinin through the common activation mechanism.

Molecular Mass

The secreted recombinant human PRSS2 pro form consists of 243 amino acids with the predicted molecular mass of 26.4 kDa. As a result of glycosylation, rhPRSS2 migrates as an approximately 30 kDa band in SDS-PAGE under reducing conditions.

Predicted N Terminal

Ala 16.

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Endotoxin	< 1.0 EU per 1g cytokine as determined by the LAL method.
Formulation	Supplied as a 0.2m filtered solution of PBS, pH7.4.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Purity	> 90%, as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRSS2 protease, serine, 2 (trypsin 2) [Homo sapiens]
Synonyms	PRSS2; protease, serine, 2 (trypsin 2); TRY2; TRY8; TRYP2; MGC111183; MGC120174; trypsin 2; trypsin II; trypsinogen 2; anionic trypsinogen; protease serine 2 preproprotein; protease, serine, 2, preproprotein; EC 3.4.21.4; Trypsin-2; Serine protease 2; protease, serine, 2
Gene ID	5645
mRNA Refseq	NM_002770
Protein Refseq	NP_002761
MIM	601564

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UniProt ID	P07478
Chromosome Location	7q34
Pathway	Neuroactive ligand-receptor interaction
Function	calcium ion binding; peptidase activity; protein binding; serine-type endopeptidase activity

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