

Recombinant Human PRSS3 Protein, His-tagged, Active

Cat. No. PRSS3-517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRSS3(Ile24-Ser247) fused with His tag at C-terminal was expressed in NS0.
Species	Human
Source	Mammalian Cells
ProteinLength	Ile24-Ser247
Description	Human Trypsin 3, encoded by the PRSS3 gene, is also known as mesotrypsin. Constituting less than 10% of the total trypsin content in normal pancreatic juice, it is one of the three trypsin isoforms produced by the pancreas. Compared to trypsin 1 and 2, one intriguing feature of Trypsin 3 is its resistance to polypeptide trypsin inhibitors, such as the Kunitz-type soybean trypsin inhibitor or the Kazal-type pancreatic secretory trypsin inhibitor. As revealed by the crystal structure, this resistance is likely due to the presence of an arginine residue in place of the highly conserved Gly198. Trypsin 3 is synthesized in the pancreas and secreted into the duodenum lumen, where it is activated by enterokinase. One proposed physiological function of Trypsin 3 is degradation of trypsin inhibitors, which facilitates the digestion of those foods rich in these proteins.
Predicted N Terminal	Ile24
Form	Supplied as a 0.2 µm filtered solution in HCl, NaCl, CaCl ₂ and Brij-35.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The specific activity is >4,000 pmol/min/g.
Molecular Mass	Predicted Molecular Mass: 26 kDa; SDS-PAGE: 20-24 kDa, non-reducing conditions.
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>80%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	PRSS3 protease, serine, 3 [Homo sapiens]
Official Symbol	PRSS3
Synonyms	PRSS3; protease, serine, 3; protease, serine, 3 (mesotrypsin) , protease, serine, 4 (trypsin 4, brain) , PRSS4; trypsin-3; mesotrypsin; TRY3; TRY4; trypsin IV; trypsin III; trypsinogen 4; trypsinogen 5; trypsinogen IV; mesotrypsinogen; brain trypsinogen; pancreatic trypsinogen III; protease, serine, 4 (trypsin 4, brain); T9; MTG; PRSS4;
Gene ID	5646
mRNA Refseq	NM_001197097
Protein Refseq	NP_001184026

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	613578
-----	--------

UniProt ID	P35030
------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA