Active Recombinant Human PRSS2 Protein, His-tagged

Cat. No. PRSS2-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRSS2 Protein (Ala16-Ser247) with a C-terminal 10-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	16-247 a.a.
Description	This gene belongs to the trypsin family of serine proteases and encodes anionic trypsinogen. It is part of a cluster of trypsinogen genes that are located within the T cell receptor beta locus. Enzymes of this family cleave peptide bonds that follow lysine or arginine residues. This protein is found at high levels in pancreatic juice and its upregulation is a characteristic feature of pancreatitis. This protein has also been found to activate pro-urokinase in ovarian tumors, suggesting a function in tumor invasion. In addition, this enzyme is able to cleave across the type II collagen triple helix in rheumatoid arthritis synovitis tissue, potentially participating in the degradation of type II collagen-rich cartilage matrix. Alternative splicing results in multiple transcript variants.
Form	Pro form
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is > 8,000 pmol/min/μg

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

Molecular Mass	34 kDa, reducing conditions
N-terminal Sequence Analysis	Ala16
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 95 % by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in HCl and NaCl.
Shipping	The product is shipped with dry ice or equivalent.

GENE INFORMATION

Gene Name	PRSS2 serine protease 2 [Homo sapiens (human)]
Official Symbol	PRSS2
Synonyms	PRSS2; serine protease 2; TRY2; TRY8; TRYP2; trypsin-2; anionic trypsinogen; protease serine 2 preproprotein; protease, serine 2; protease, serine, 2 (trypsin 2); trypsin II; trypsinogen 2; EC 3.4.21.4
Gene ID	5645
mRNA Refseq	NM_002770

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Protein Refseq	NP_002761
MIM	601564
UniProt ID	P07478

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