

## Recombinant Human PRSS12 protein, His & T7-tagged

Cat. No. PRSS12-6906H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Human PRSS12 aa. (Glu17~Ser235 (Accession # P56730)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Glu17~Ser235                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a member of the trypsin family of serine proteases. Studies in mouse suggest that the encoded enzyme may be involved in structural reorganizations associated with learning and memory. The enzyme is also expressed in Leydig cells in the testis, but its function in this tissue is unknown. Defects in this gene are a cause of mental retardation autosomal recessive type 1 (MRT1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 25kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Characteristic</b>   | The isoelectric point is 9.0.                                                                                                                                                                                                                                                                                                                                                                               |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP                                                                                                                                                                                                                                                                                                             |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

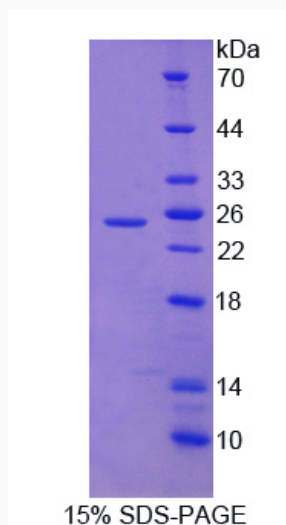
|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PRSS12 protease, serine 12 [ Homo sapiens (human) ]                                                                                                     |
| <b>Official Symbol</b> | PRSS12                                                                                                                                                  |
| <b>Synonyms</b>        | PRSS12; protease, serine 12; MRT1; BSSP3; BSSP-3; neurotrypsin; brain-specific serine protease 3; leydin; protease, serine, 12 (neurotrypsin, motopsin) |
| <b>Gene ID</b>         | 8492                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_003619.3                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_003610.2                                                                                                                                             |
| <b>UniProt ID</b>      | P56730                                                                                                                                                  |

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SDS-PAGE



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