

# Active Recombinant Pig TMPRSS15 Protein

**Cat. No.** TMPRSS15-156T    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Pig TMPRSS15 Protein without tag was expressed in <i>P. pastoris</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | <i>P.pastoris</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>Enterokinase (EK) is a specific protease that cleaves a protein after lysine residue at its recognition site: Asp-Asp-Asp-Asp-Lys. Enterokinase will not work if the recognition site is followed by proline. If a fusion tag is placed at the N-terminus with an enterokinase site, enterokinase will be able to remove the fusion tag and to generate the protein exactly as you need without adding any unwanted residues. Porcine Enterokinase is a highly purified recombinant porcine enterokinase (Light Chain) expressed from <i>P. Pastoris</i> GS115 and is supplied in two forms for customers: a. Liquid in 50% glycerol; b. Lyophilized (glycerol free).</p> |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | One unit is defined as the amount of enzyme needed to cleave 50 ug of fusion protein in 16 hours to 95% completion at 22 centigrade in a buffer containing 25 mM Tris-HCl, pH 8.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | Theoretical MW: 21,880 Da; The apparent MW on SDS-PAGE: about 40,000 Da.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -20 centigrade after receiving. Reconstituted EK is stable for 24 hours at 2 centigrade - 8 centigrade. For long term storage, store it at -20 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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**Storage Buffer** rPorcine Enterokinase, Lyophilized has been formulated using a proprietary technology, and the enzyme can be shipped at room temperature or stand at 37 centigrade for 7 days without losing any activity.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/mL.

## GENE INFORMATION

**Gene Name** [TMPRSS15 transmembrane protease, serine 15 \[ Sus scrofa \]](#)

**Official Symbol** [TMPRSS15](#)

**Synonyms** TMPRSS15; transmembrane protease, serine 15; enteropeptidase; enterokinase; serine protease 7; transmembrane protease serine 15; protease, serine, 7 (enterokinase); enteropeptidase, light chain (L chain); PRSS7;

**Gene ID** [397152](#)

**mRNA Refseq** [NM\\_001001259](#)

**Protein Refseq** [NP\\_001001259](#)

**UniProt ID** [P98074](#)

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