

# Recombinant Mouse Elane Protein, His-tagged

**Cat. No.** Elane-1419M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Elane Protein (Ile29-Arg247) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Ile29-Arg247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | This gene encodes a member of the chymotrypsin-like family of serine protease enzymes that hydrolyzes a broad range of protein substrates including elastin. This gene is expressed by neutrophils where the encoded enzyme is stored in azurophil granules. Upon neutrophil activation, the active enzyme is released into the extracellular milieu. Mice lacking the encoded protein exhibit increased susceptibility to sepsis and death following intraperitoneal infection with Gram negative bacteria. This gene is located adjacent to a related proteinase gene on chromosome 10. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 27.4 kDa<br>Accurate Molecular Mass: 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

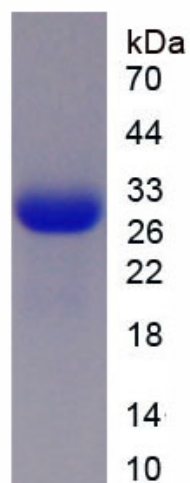
## GENE INFORMATION

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Elane elastase, neutrophil expressed [ <i>Mus musculus</i> (house mouse) ]                                                                    |
| <b>Official Symbol</b> | Elane                                                                                                                                         |
| <b>Synonyms</b>        | Elane; elastase, neutrophil expressed; NE; Ela2; F430011M15Rik; neutrophil elastase; elastase 2, neutrophil; leukocyte elastase; EC 3.4.21.37 |
| <b>Gene ID</b>         | 50701                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_015779                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_056594                                                                                                                                     |
| <b>UniProt ID</b>      | Q3UP87                                                                                                                                        |

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