Recombinant Mouse Elane Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Elane Protein (Ile29-Arg247) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ile29-Arg247
Description	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 mileu. 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.4 kDa Accurate Molecular Mass: 30 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

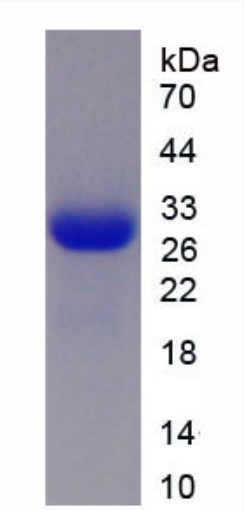
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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