

## ARG81927 Mouse Neutrophil Elastase ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81927-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81927-002	Standard	2 X 10 ng/vial	4°C
ARG81927-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81927-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81927-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81927-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81927-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81927-008	25X Wash buffer	20 ml	4°C
ARG81927-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81927-010	STOP solution	10 ml (Ready to use)	4°C
ARG81927-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81927 Mouse Neutrophil Elastase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Neutrophil Elastase in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Neutrophil Elastase
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 7.0%; Inter-Assay CV: 7.3%
Alternate Names	Neutrophil elastase; HNE; EC 3.4.21.37; Medullasin; NE; ELA2; GE; Bone marrow serine protease; SCN1; PMN-E; Human leukocyte elastase; HLE; Elastase-2; PMN elastase

## Application Instructions

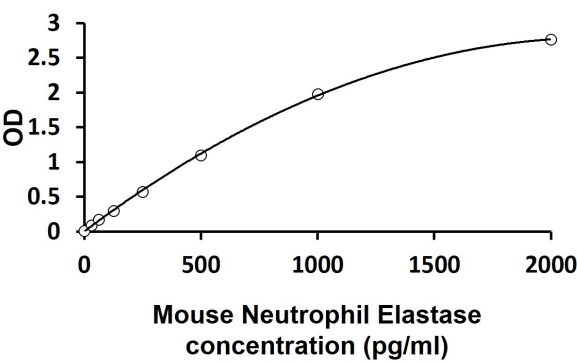
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	ELANE
Gene Full Name	elastase, neutrophil expressed
Background	Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins. The product of this gene hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix following the protein's release from activated neutrophils. The enzyme may play a role in degenerative and inflammatory diseases by its proteolysis of collagen-IV and elastin of the extracellular matrix. This protein degrades the outer membrane protein A (OmpA) of E. coli as well as the virulence factors of such bacteria as Shigella, Salmonella and Yersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is clustered with other serine protease gene family members, azurocidin 1 and proteinase 3 genes, at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq, May 2009]
Function	Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis. [UniProt]
Highlight	Related products: <a href="#">Neutrophil Elastase antibodies</a> ; <a href="#">Neutrophil Elastase ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>



ARG81927 Mouse Neutrophil Elastase ELISA Kit standard curve image

ARG81927 Mouse Neutrophil Elastase ELISA Kit results of a typical standard run with optical density reading at 450 nm.