

ARG83795 Human Neutrophil elastase ELISA Kit

Package: 96 wells
Store at: 4°C, -20°C

Summary

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| Product Description | ARG83795 Human Neutrophil elastase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Neutrophil elastase in serum, plasma and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Target Name | Neutrophil elastase |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 46.875 pg/ml |
| Sample Type | serum, plasma and cell culture supernatants. |
| Standard Range | 93.75 – 6000 pg/ml |
| Sample Volume | 50 µl |
| 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

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| Assay Time | 4 hours |
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Properties

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| Form | 96 well |
| Storage instruction | Store the kit at 4°C, -20°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

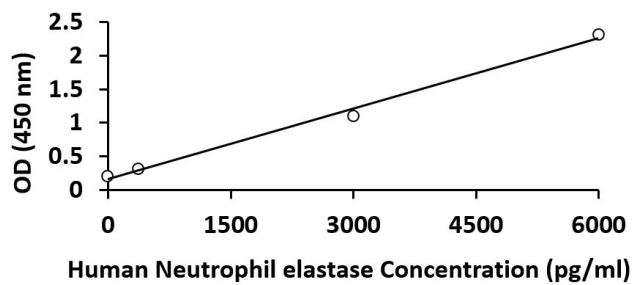
| | |
|----------------|--|
| Gene Symbol | ELANE |
| Gene Full Name | elastase, neutrophil expressed |
| Background | Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins. The product of this gene hydrolyzes proteins within specialized neutrophil lysosomes, called azurophilic 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 <i>E. coli</i> as well as the virulence factors of such bacteria as <i>Shigella</i> , <i>Salmonella</i> and <i>Yersinia</i> . 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]

Images



ARG83795 Human Neutrophil elastase ELISA Kit standard curve image

ARG83795 Human Neutrophil elastase ELISA Kit results of a typical standard run with optical density reading at 450 nm.