

ARG80507 Human Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG80507 Human Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex in plasma (EDTA, citrate), seminal plasma, exudate, BALF and CSF.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex
Conjugation	HRP
Sensitivity	0.2 ng/ml
Sample Type	Plasma (EDTA, citrate), seminal plasma, exudate, BALF and CSF.
Standard Range	15.6 - 1000 ng/ml
Sample Volume	100 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

Assay Time	1 h, 1 h (RT/shaking), 20 min (RT/dark)
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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

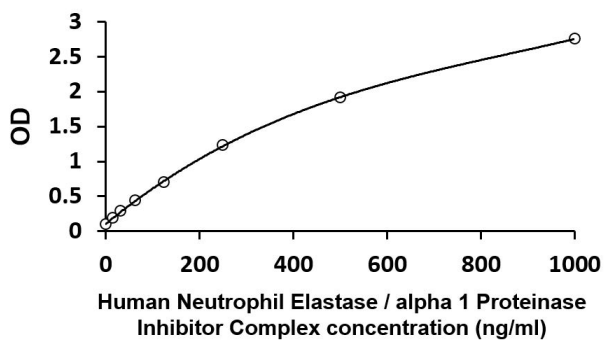
this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is clustered with other serine protease gene family members, azurocidin 1 and proteinase 3 genes, at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together 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]

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Research Area Microbiology and Infectious Disease kit; Signaling Transduction kit

Images



ARG80507 Human Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex ELISA Kit standard curve image

ARG80507 Human Neutrophil Elastase / alpha 1 Proteinase Inhibitor Complex ELISA Kit results of a typical standard.