

Product datasheet

info@arigobio.com

ARG82775 Human Neutrophil Elastase ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82775-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82775-002	Standard	2 X 50 ng/vial	4°C
ARG82775-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82775-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG82775-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82775-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG82775-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82775-008	25X Wash buffer	20 ml	4°C
ARG82775-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82775-010	STOP solution	10 ml (Ready to use)	4°C
ARG82775-011	Plate sealer	4 strips	Room temperature

Summary

•			
Product Description	ARG82775 Human Neutrophil Elastase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Neutrophil Elastase in serum, plasma (EDTA, heparin) and cell culture supernatants.		
Tested Reactivity	Hu		
Tested Application	ELISA		
Target Name	ame Neutrophil Elastase		
Conjugation	HRP		
Conjugation Note	Substrate: TMB and read at 450 nm.		
Sensitivity	0.39 ng/ml		
Sample TypeSerum, plasma (EDTA, heparin) and cell culture supernatants.Standard Range0.78 - 50 ng/mlSample Volume100 μl			
		Precision	Intra-Assay CV: 4.3% Inter-Assay CV: 5.3%

Application Instructions

Assay Time

~ 5 hours

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

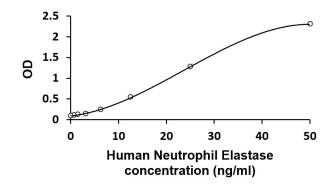
Background

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also 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 present in a gene cluster on chromosome 19. [provided by RefSeq, Jan 2016]

Function

Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis (PubMed:15140022). Capable of killing E.coli but not S.aureus in vitro; digests outer membrane protein A (ompA) in E.coli and K.pneumoniae (PubMed:10947984). [UniProt]

Images



ARG82775 Human Neutrophil Elastase ELISA Kit standard curve image

ARG82775 Human Neutrophil Elastase ELISA Kit results of a typical standard run with optical density reading at 450 nm.