

ARG82848 Human Cathepsin E ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82848-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82848-002	Standard	2 X 10 ng/vial	4°C
ARG82848-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82848-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82848-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82848-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82848-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82848-008	25X Wash buffer	20 ml	4°C
ARG82848-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82848-010	STOP solution	10 ml (Ready to use)	4°C
ARG82848-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82848 Human Cathepsin E ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cathepsin E in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Cathepsin E
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.0% Inter-Assay CV: 5.8%

Alternate Names EC 3.4.23.34; CATE; Cathepsin E

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 CTSE

Gene Full Name cathepsin E

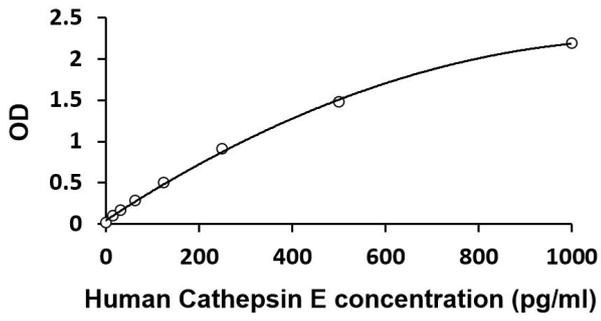
Background This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015]

Function May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain. [UniProt]

PTM Glycosylated. The nature of the carbohydrate chain varies between cell types. In fibroblasts, the proenzyme contains a high mannose-type oligosaccharide, while the mature enzyme contains a complex-type oligosaccharide. In erythrocyte membranes, both the proenzyme and mature enzyme contain a complex-type oligosaccharide.

Two forms are produced by autocatalytic cleavage, form I begins at Ile-54, form II begins at Thr-57. [UniProt]

Cellular Localization Endosome. Note=The proenzyme is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome. [UniProt]



ARG82848 Human Cathepsin E ELISA Kit standard curve image

ARG82848 Human Cathepsin E ELISA Kit results of a typical standard run with optical density reading at 450 nm.