

## ARG82692 Human Cathepsin L ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82692-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82692-002	Standard	2 X 10 ng/vial	4°C
ARG82692-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82692-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82692-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82692-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82692-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82692-008	25X Wash buffer	20 ml	4°C
ARG82692-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82692-010	STOP solution	10 ml (Ready to use)	4°C
ARG82692-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82692 Human Cathepsin L ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cathepsin L in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Cathepsin L
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	32 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.7% Inter-Assay CV: 5.6%

## Alternate Names

Major excreted protein; Cathepsin L; CATL; Cathepsin L1; EC 3.4.22.15; CTS1; MEP

## 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 CTS1

Gene Full Name cathepsin L

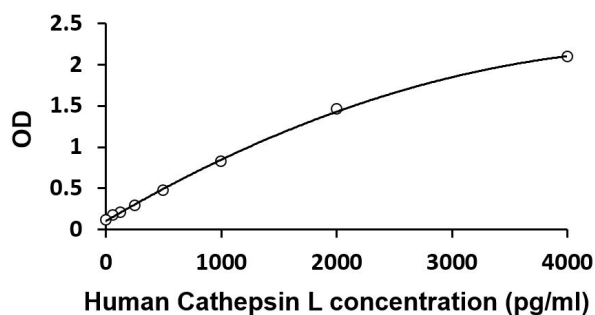
Background The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012]

Function Important for the overall degradation of proteins in lysosomes. [UniProt]

Highlight Related products:  
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New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Lysosome. [UniProt]

## Images



ARG82692 Human Cathepsin L ELISA Kit standard curve image

ARG82692 Human Cathepsin L ELISA Kit results of a typical standard run with optical density reading at 450 nm.