

## ARG81704 Mouse Cathepsin D ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81704-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81704-002	Standard	2 X 20 ng/vial	4°C
ARG81704-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81704-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81704-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81704-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81704-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81704-008	25X Wash buffer	20 ml	4°C
ARG81704-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81704-010	STOP solution	10 ml (Ready to use)	4°C
ARG81704-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81704 Mouse Cathepsin D ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Cathepsin D in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Cathepsin D
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3%; Inter-Assay CV: 7.4%
Alternate Names	CPSD; EC 3.4.23.5; HEL-S-130P; CLN10; Cathepsin D

## Application Instructions

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Assay Time	~ 5 hours
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## Properties

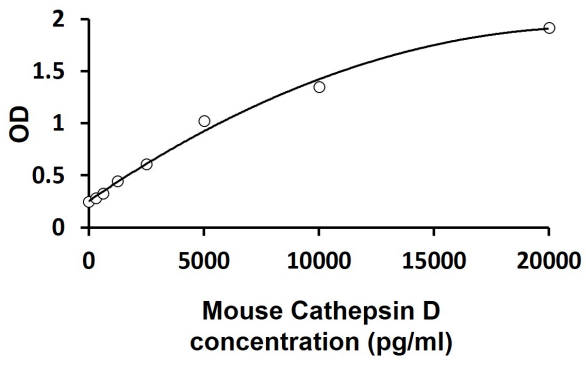
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Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	CTSD
Gene Full Name	cathepsin D
Background	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. [provided by RefSeq, Jul 2008]
Function	Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. [UniProt]
Highlight	Related products: <a href="#">Cathepsin antibodies</a> ; <a href="#">Cathepsin ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	N- and O-glycosylated.  Undergoes proteolytic cleavage and activation by ADAM30.  As well as the major heavy chain which starts at Leu-169, 2 minor forms starting at Gly-170 and Gly-171 have been identified (PubMed:1426530). An additional form starting at Ala-168 has also been identified (PubMed:27333034). [UniProt]



ARG81704 Mouse Cathepsin D ELISA Kit standard curve image

ARG81704 Mouse Cathepsin D ELISA Kit results of a typical standard run with optical density reading at 450 nm.