ARG83261
Human Cathepsin C ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83261 Human Cathepsin C ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cathepsin C in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Cathepsin C
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	100 pg/ml
Detection Range	156 pg/ml - 10,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.5% Inter-Assay CV: 4.3%
Alternate Names	CTSC; Cathepsin C; Dipeptidyl Peptidase 1; DPP1; Dipeptidyl Transferase; Cathepsin J; EC 3.4.14.1; DPP-I; CPPI; DPPI; PALS; PLS; Dipeptidyl-Peptidase I; Dipeptidyl Peptidase I; PDON1; HMS; JPD; JP

Application Instructions

Assay Time	~ 5 hours

Properties

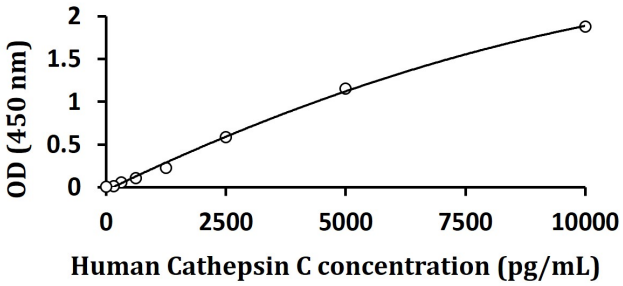
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory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

Bioinformation

Gene Symbol	CTSC
Gene Full Name	Cathepsin C
Background	This gene encodes a member of the peptidase C1 family and lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in cells of the immune system. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate heavy and light chains that form a disulfide-linked dimer. A portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade

	glucagon. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis.
Function	Activates serine proteases such as elastase, cathepsin G and granzymes A and B.
PTM	Disulfide bond, Glycoprotein, Zymogen
Cellular Localization	Lysosome

Images



ARG83261 Human Cathepsin C ELISA Kit standard curve image

ARG83261 Human Cathepsin C ELISA Kit results of a typical standard run with optical density reading at 450 nm.