

ARG82068 Human Cystatin B / Stefin B ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82068-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82068-002	Standard	2 X 10 ng/vial	4°C
ARG82068-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82068-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82068-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82068-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82068-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82068-008	25X Wash buffer	20 ml	4°C
ARG82068-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82068-010	STOP solution	10 ml (Ready to use)	4°C
ARG82068-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	Human Cystatin B / Stefin B ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cystatin B / Stefin B in serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Cystatin B / Stefin B
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 7.4%; Inter-Assay CV: 8.2%

Alternate Names	Liver thiol proteinase inhibitor; EPM1; CPI-B; EPM1A; Cystatin-B; Stefin-B; PME; CST6; ULD; STFB
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Application Instructions

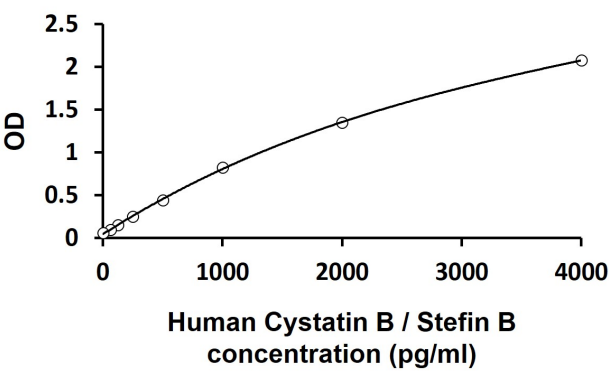
Assay Time	~ 5 hours
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Properties

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	CSTB
Gene Full Name	cystatin B (stefin B)
Background	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, H and B. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). [provided by RefSeq, Jul 2008]
Function	This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. [UniProt]
Highlight	Related products: Cystatin antibodies ; Cystatin ELISA Kits ; Cystatin Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Cytoplasm. Nucleus. [UniProt]



ARG82068 Human Cystatin B / Stefin B ELISA Kit standard curve image

ARG82068 Human Cystatin B / Stefin B ELISA Kit results of a typical standard run with optical density reading at 450 nm.