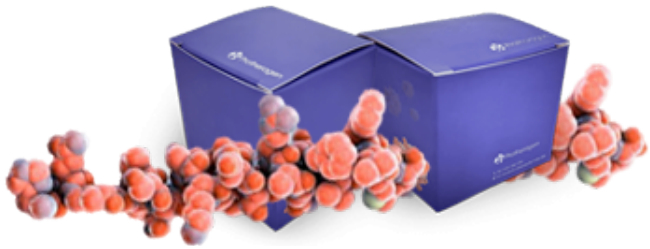
Protheragen Obesity



Mouse cathepsin S (CTSS) ELISA kit (62.5-4000 pg/mL)

Cat. No.:	OB0625WXX-533
Assay Type:	Quantitative sandwich ELISA
Target Species:	Mouse
Assay Target:	CTSS
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Mouse cathepsin S (CTSS) ELISA kit (62.5-4000 pg/mL) is an ELISA-based *in vit ro* research tool designed specifically for the quantitative detection of CTS S in mouse with a range of 62.5-4000 pg/mL and a specificity of 25.2 pg/mL.
Assay Principle	The microtiter plate provided in this kit is pre-coated with an antibody specifi c for CTSS. Standards or samples are then added to the appropriate microtiter pl ate wells along with a biotin-conjugated antibody preparation specific for CTSS. Avidin conjugated to horseradish peroxidase (HRP) is then added to each micropl ate well and incubated. Upon addition of TMB substrate solution, only wells cont aining CTSS, biotin-conjugated antibody and enzyme-conjugated avidin will show a color change. The enzyme-substrate reaction is terminated by the addition of su lfuric acid solution, and the color change is measured spectrophotometrically at 450 nm ± 10 nm. The OD of the sample is then compared to a standard curve to de termine the concentration of CTSS in the sample.
Background	CTSS is an important member of the cysteine protease family. As a potent mammali an elastase, it can degrade various extracellular components, including fibronec tin, laminin, elastin, and collagen. CTSS is abnormally expressed in various dis ease states, such as obesity and atherosclerosis, which makes it a biomarker and a potential therapeutic target. Studies have found that CTSS inhibitors may be a possible strategy for treating obesity.
Synonyms	CTS-S; EC 3.4.22.27

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com

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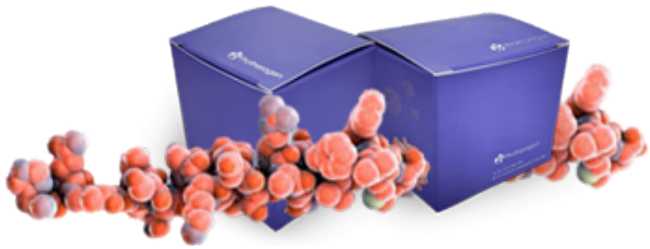

EC NO.	3.4.22.27
Formula Weight	38,475 Da
Applications	Mouse cathepsin S (CTSS) ELISA kit (62.5-4000 pg/mL) is used to quantify CTSS in serum, plasma, tissue homogenates, and other biological fluid samples of mouse, providing data to support a wide range of studies.
Research Area	Obesity research; Immune response; Signaling pathway; Protein degradation

Specification

Sample Type	Serum; Plasma; Tissue homogenates; Other biological fluids
Detection Range	62.5-4000 pg/mL
Sensitivity	25.2 pg/mL
Precision (Intra-assay)	CV<10%
Precision (Inter-assay)	CV<12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 4°C (TMB substrate, wash buffer, stop solution) and -20°C (other reagen ts).

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