



Canine cathepsin S (CTSS) ELISA kit (0.25-8 ng/mL)

Cat. No.:	OB0625WXX-510
Assay Type:	Quantitative sandwich ELISA
Target Species:	Canine
Assay Target:	CTSS
Size:	48T; 96T

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

Product Overview

Description	Canine cathepsin S (CTSS) ELISA kit (0.25-8 ng/mL) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of CTSS in canines with a range of 0.25-8 ng/mL and a specificity of 0.1 ng/mL.
Assay Principle	The kit is based on CTSS antibody-CTSS antigen interaction (immunosorbent) and a n HRP colorimetric detection system to detect CTSS antigen targets in samples.
Background	CTSS is an important member of the cysteine protease family. As a potent mammalian elastase, it can degrade various extracellular components, including fibronectin, laminin, elastin, and collagen. CTSS is abnormally expressed in various disease 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
EC NO.	3.4.22.27
Formula Weight	37,496 Da
Applications	Canine cathepsin S (CTSS) ELISA kit (0.25-8 ng/mL) is used to quantify CTSS in body fluids, tissue homogenates, secretions, and feces of canine, providing data to support a wide range of studies.
Research Area	Obesity research; Immune response; Signaling pathway; Protein degradation

Specification



Sample Type	Body fluids; Tissue homogenates; Secretions; Fece samples
Detection Range	0.25-8 ng/mL
Sensitivity	0.1 ng/mL
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.