

## Caprine 4-Hydroxynonenal (4-HNE) ELISA Kit-Competitive

**Cat. No.:** EK1F473

**Product Type:** Animal Immunoassay Kits

**Size:** 96T

### Product Overview

BioVenic Caprine 4-Hydroxynonenal (4-HNE) ELISA Kit-Competitive is designed for the quantitative determination of Caprine 4-Hydroxynonenal (4-HNE) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Competitive ELISA method. For research use only.

### Specifications

Assay Type	ELISA-Competitive
Specificity	The assay kit is specific for Caprine 4-HNE.
Target Species	Caprine
Species Reactivity	Caprine
Detection Range	0.64-40 ng/mL
Sensitivity	0.39 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 120 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

### Target Information

4-Hydroxynonenal (4-HNE), also known as 4-hydroxy-2E-nonenal, is an  $\alpha,\beta$ -unsaturated hydroxyalkenal produced by lipid peroxidation in cells. 4-HNE is the major  $\alpha,\beta$ -unsaturated hydroxyalkenal formed during lipid peroxidation. It is generated during the oxidation of lipids containing polyunsaturated omega-6 fatty acids, such as arachidonic and linoleic acids. 4-HNE is hypothesized to play a key role in cell signal transduction across various pathways, from cell cycle events to cellular adhesion.

Target/Biomarker	Caprine 4-HNE
Target Synonym	4-HNE; HNE; 4-hydroxy-2-nonenal; 4-Hydroxynonenal

### Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.