

Bovine Glutathione Peroxidase 1 (GPX1) ELISA Kit-Sandwich

Cat. No.: EK11F551

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Bovine Glutathione Peroxidase 1 (GPX1) ELISA Kit-Sandwich is designed for the quantitative determination of Bovine Glutathione Peroxidase 1 (GPX1) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Bovine GPX1. No cross-reactivity with other relevant proteins.
Target Species	Bovine
Species Reactivity	Bovine
Detection Range	1.56-100 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 270 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

Bovine Glutathione Peroxidase 1 is encoded by the *GPX1* gene in cattle. GPX1 is found in various tissues and is essential for overall health and well-being. This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes. Research has shown that bovine mammary epithelial cells express GPx1 and GPx3 *in vivo* and *in vitro*.

Target/Biomarker	Bovine GPX1
Target Synonym	glutathione peroxidase 1; GPx-1; GSHPx-1; cellular glutathione peroxidase
Gene ID	281209
UniProt ID	P00435

Shipping and Storage

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

Reference

1. Miranda, S. G. *et al.* Selenomethionine stimulates expression of glutathione peroxidase 1 and 3 and growth of bovine mammary epithelial cells in primary culture. *Journal of Dairy Science*. 2009, 92: 2670-2683.

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.