

Bovine Ribose-5-Phosphate Isomerase (RPIA) ELISA Kit-Sandwich

Cat. No.: EK11F473

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Bovine Ribose-5-Phosphate Isomerase (RPIA) ELISA Kit-Sandwich is designed for the quantitative determination of Bovine Ribose-5-Phosphate Isomerase (RPIA) 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 RPIA.
Target Species	Bovine
Species Reactivity	Bovine
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 Ribose-5-Phosphate Isomerase is encoded by the *RPIA* gene in cattle. RPIA catalyzes the conversion between ribose-5-phosphate (R5P) and ribulose-5-phosphate (Ru5P). It is a member of a larger class of isomerases that facilitate the interconversion of structural isomers of pentose. RPIA and transketolase (TKT), which are involved in glycerol metabolism and boosting erythritol manufacture, were co-overexpressed and significantly augmented erythritol development.

Target/Biomarker	Bovine RPIA
Target Synonym	ribose 5-phosphate isomerase A; ribose-5-phosphate isomerase; phosphoriboisomerase; ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)
Gene ID	613376
UniProt ID	Q3T186

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

Al-Sharif, M. *et al.* Investigating Polymorphisms and Expression Profile of Immune, Antioxidant, and Erythritol-Related Genes for Limiting Postparturient Endometritis in Holstein Cattle. *Veterinary sciences*. 2023, 10: 370.

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.