



Bovine LYR motif-containing protein 1 (LYRM1) ELISA kit

Cat. No.:	0126WXX-979
Assay Type:	Quantitative ELISA
Target Species:	Bovine
Assay Target:	LYRM1
Size:	48T; 96T

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

Product Overview

Description	Bovine LYR motif-containing protein 1 (LYRM1) ELISA kit is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of LYRM1 in porcine samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on LYRM1 antibody-LYRM1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect LYRM1 antigen targets in samples.
Background	LYRM1 is a protein containing a LYR domain, primarily localized to mitochondria. Its core function is as a molecular chaperone or assembly factor, playing a crucial role in the proper assembly and functional stability of Complex I (NADH-ubiquinone oxidoreductase) in the mitochondrial respiratory chain. The relevance of LYR1 to obesity research lies in its direct influence on cellular energy metabolism and mitochondrial function. Mitochondrial dysfunction is a key hallmark of obesity and insulin resistance, particularly in muscle and adipose tissues. By maintaining the efficient operation of Complex I, LYR1 directly impacts a cell's capacity for oxidative phosphorylation and fatty acid oxidation.
Synonyms	LYR motif containing 1
Formula Weight	14,282 Da



Applications

Bovine LYR motif-containing protein 1 (LYRM1) ELISA kit is used to quantify LYRM 1 in serum, plasma, cell culture supernatants, body fluid, tissue homogenate of bovine, providing data to support research in a wide range of areas, including mitochondrial biology, metabolism, obesity, etc.

Research Area

Mitochondrial biology; Metabolism; Obesity

Specification

Sample Type

Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.