



Mouse glucagon-like peptide 2 (GLP-2) ELISA kit (1.0 pg/mL)

Cat. No.:	0126WXX-222
Assay Type:	Quantitative competitive ELISA
Target Species:	Mouse
Assay Target:	GLP-2
Size:	48T; 96T

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

Product Overview

Description	Mouse glucagon-like peptide 2 (GLP-2) ELISA kit (1.0 pg/mL) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of GLP-2 in mouse samples with a minimum detectable dose (sensitivity) of 1.0 pg/mL. The kit is highly sensitive and easy to use.
Assay Principle	The GLP-2 ELISA kit applies a competitive enzyme immunoassay technique. An anti-GLP-2 antibody and a GLP-2-HRP conjugate are incubated with the sample for one hour in a pre-coated plate. Endogenous GLP-2 competes with the conjugate for limited binding sites. Following a five-fold wash, an HRP substrate is added. The reaction produces a blue complex that shifts to yellow upon adding a stop solution. The intensity, measured at 450 nm, is inversely proportional to the GLP-2 concentration, which is then interpolated from a standard curve.
Background	GLP-2, as an incretin, primarily functions to promote intestinal growth and nutrient absorption. Recent studies have revealed that GLP-2's association with obesity primarily manifests through its regulatory effects on intestinal barrier function and the gut microbiome. By improving gut health, GLP-2 may indirectly influence metabolism. Furthermore, ongoing research is exploring the potential applications of GLP-2 and its analogues in regulating fat metabolism and energy expenditure, offering new avenues for obesity treatment.
Synonyms	Glp2; GLP2
Formula Weight	20,909 Da

**Applications**

Mouse glucagon-like peptide 2 (GLP-2) ELISA kit (1.0 pg/mL) is used to quantify GLP-2 in serum, plasma, cell culture supernatants, body fluid, and tissue homogenate of mouse, providing data to support research in a wide range of areas, including metabolism, endocrinology, cardiovascular biology, obesity, and others.

Research Area

Metabolism; Endocrinology; Cardiovascular biology; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Detection Range	50-1000 pg/mL
Sensitivity	1.0 pg/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	92-103%
Storage	Store at 2-8°C.