



Hamster insulin receptor substrate 3 (IRS-3) ELISA kit

Cat. No.:	0126WXX-721
Assay Type:	Quantitative ELISA
Target Species:	Hamster
Assay Target:	IRS-3
Size:	48T; 96T

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

Product Overview

Description	Hamster insulin receptor substrate 3 (IRS-3) ELISA kit is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of IRS-3 in hamster samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on IRS-3 antibody-IRS-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IRS-3 antigen targets in samples.
Background	IRS-3 is a signal transduction protein belonging to the insulin receptor substrate (IRS) family. Proteins within this family serve as crucial “bridges” in the insulin receptor signaling pathway. When insulin binds to the insulin receptor on the cell surface, the receptor becomes activated and phosphorylated (adding phosphate groups). These phosphate groups then activate the IRS proteins. IRS-3 functions as a signal relay, transmitting signals from the insulin receptor to downstream molecules (such as PI3K), thereby initiating various cellular biological responses, including glucose transport, lipid synthesis, and cell growth. Given its central position in insulin signaling, it may play a role in obesity.
Synonyms	IRS3
Formula Weight	131,591 Da
Applications	Hamster insulin receptor substrate 3 (IRS-3) ELISA kit is used to quantify IRS-3 in hamster samples, providing data to support research in a wide range of areas, including metabolism, obesity, etc.



Research Area Metabolism; Obesity

Specification

Sample Type Hamster samples

Cross-reactivity No significant cross-reactivity or interference was observed.

Storage Store at 2-8°C.