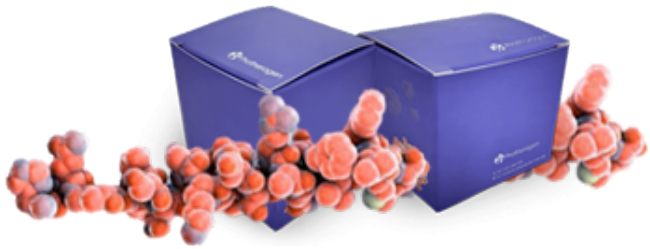
Protheragen
Obesity



Sheep nuclear receptor subfamily 3, group C, member 1 (NR3C1) ELISA kit

Cat. No.:	0126WXX-1179
Assay Type:	Quantitative ELISA
Target Species:	Sheep
Assay Target:	NR3C1
Size:	48T; 96T

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

Product Overview

Description	Sheep nuclear receptor subfamily 3, group C, member 1 (NR3C1) ELISA kit is an EL ISA-based *in vitro* research tool designed specifically for the quantitati ve detection of NR3C1 in sheep samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on NR3C1 antibody-NR3C1 anti gen interactions (immunosorbency) and an HRP colorimetric detection system to de tect NR3C1 antigen targets in samples.
Background	Nuclear receptor subfamily 3, group C, member 1 (NR3C1) is the scientific term f or the glucocorticoid receptor (GR). It is a protein that functions as a nuclear receptor. Its primary role is to respond to a specific type of hormone called g lucocorticoids—the most well-known of which is cortisol, often referred to as th e “stress hormone.” When glucocorticoids enter cells, they bind to the GR. This binding activates the receptor, prompting it to migrate into the cell nucleus. O nce inside the nucleus, GR directly attaches to specific regions of DNA, thereby turning on or off particular genes to regulate numerous biological processes in the body. It plays a central role in metabolism and serves as a key link betwee n stress and obesity. Because it controls energy storage and expenditure, elevat ed cortisol levels resulting from chronic stress can overactivate this receptor, leading to weight gain. This effect is particularly pronounced in visceral fat— the dangerous fat that accumulates around abdominal organs.
Synonyms	GR; GCCR; GCR; GR; GRL; NR3-C1; Glucocorticoid receptor

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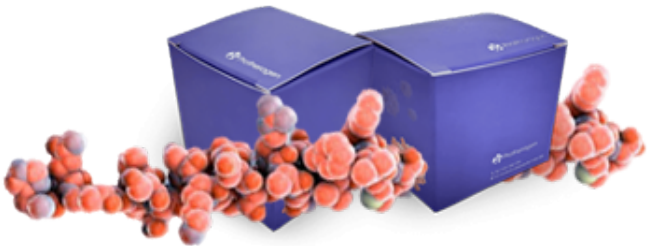

Formula Weight	39,942 Da
Applications	Sheep nuclear receptor subfamily 3, group C, member 1 (NR3C1) ELISA kit is used to quantify NR3C1 in sheep samples, providing data to support research in a wide range of areas, including signal transduction, endocrinology, hormone metabolis m, obesity, *etc*.
Research Area	Signal transduction; Endocrinology; Hormone metabolism; Obesity

Specification

Sample Type	Sheep samples
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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