



Rat fatty acid synthase (FAS) ELISA kit (3.12-100 U/L)

Cat. No.:	OB0625WXX-850
Assay Type:	Quantitative sandwich ELISA
Target Species:	Rat
Assay Target:	FAS
Size:	48T; 96T

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

Product Overview

Description	Rat fatty acid synthase (FAS) ELISA kit (3.12-100 U/L) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of FAS in rats with a range of 3.12-100 U/L and a specificity of 1.0 U/L.
Assay Principle	The kit is based on a FAS antibody-FAS antigen interaction (immunosorbent) and a n HRP colorimetric detection system to detect FAS antigen targets in samples.
Background	FAS is a multi-enzyme protein that catalyzes fatty acid synthesis. It is essential for the de novo synthesis of long-chain saturated fatty acids from acetyl-CoA, malonyl-CoA, and NADPH. Studies have found that FAS may be involved in obesity by regulating feeding behavior and energy homeostasis, potentially playing a role in body weight regulation and obesity development.
Synonyms	Short chain dehydrogenase/reductase family 27X, Member 1; S-acetyltransferase; 3-oxoacyl synthase; Oleoyl hydrolase; Enoyl-acyl-carrier-protein reductase; OA519; SDR27X1; EC 2.3.1.85
EC NO.	2.3.1.85
Formula Weight	273,427 Da
Applications	Rat fatty acid synthase (FAS) ELISA kit (3.12-100 U/L) is used to quantify FAS in serum, plasma, tissue homogenate, feces, urine, and body fluid samples of rats, providing data to support a wide range of studies.
Research Area	Fatty acid synthesis; Lipid metabolism; Obesity research

Specification



Sample Type	Serum; Plasma; Tissue homogenate; Feces; Urine; Body fluids
Detection Range	3.12-100 U/L
Sensitivity	1.0 U/L
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.