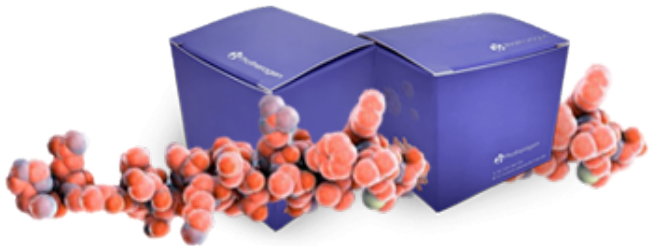
Protheragen
Obesity



Human fatty acid synthase (FAS) ELISA kit (1.56-100 ng/mL)

Cat. No.:	OB0625WXX-861
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	FAS
Size:	24T; 48T; 96T

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

Product Overview

Description	Human fatty acid synthase (FAS) ELISA kit (1.56-100 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of FAS in human with a range of 1.56-100 ng/mL and a specificity of 0.39 ng/mL.
Assay Principle	An antibody specific for FAS has been pre-coated onto the microtiter plate. Stan dards and samples are pipetted into the wells, and the immobilized antibody bind s to the FAS therein. After removing unbound material, a biotin-conjugated antib ody specific for FAS is added to the wells. After washing, avidin-conjugated hor seradish peroxidase (HRP) is added to the wells. After washing to remove unbound avidin-enzyme reagent, a substrate solution is added to the wells, and the colo r is developed proportionally to the amount of FAS bound in the first step. The color development is stopped, and the intensity of the color is measured.
Background	FAS is a multi-enzyme protein that catalyzes fatty acid synthesis. It is essenti al 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 ro le 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

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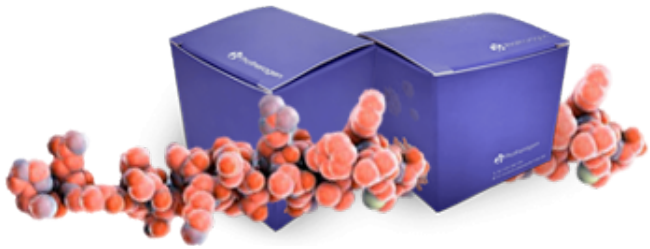

Formula Weight	273,427 Da
Applications	Human fatty acid synthase (FAS) ELISA kit (1.56-100 ng/mL) is used to quantify F AS in serum, plasma, tissue homogenates, and cell lysate samples of human, provi ding data to support a wide range of studies.
Research Area	Fatty acid synthesis; Lipid metabolism; Obesity research

Specification

Sample Type	Serum; Plasma; Tissue homogenates; Cell lysates
Detection Range	1.56-100 ng/mL
Sensitivity	0.39 ng/mL
Precision (Intra-assay)	CV<8%
Precision (Inter-assay)	CV<10%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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