Rat fatty acid synthase (FAS) ELISA kit

Product Code	CSB-E16440r
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	FASN
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	fatty acid synthase
Uniprot No.	P12785
Alias	FAS, MGC14367, MGC15706, OA-519, SDR27X1, short chain dehydrogenase/reductase family 27X, member 1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Fatty acid biosynthesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	Fasn
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat FASN ELISA Kit was designed for the quantitative measurement of Rat FASN protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/mL.
Target Details	The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha

(ER-alpha), in which the N-terminus of FAS is fused in-frame with the C-terminus of ER-alpha.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat FAS in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	90
	Range %	85-94
1:2	Average %	92
	Range %	88-99
1:4	Average %	88
	Range %	84-92
1:8	Average %	95
	Range %	90-100

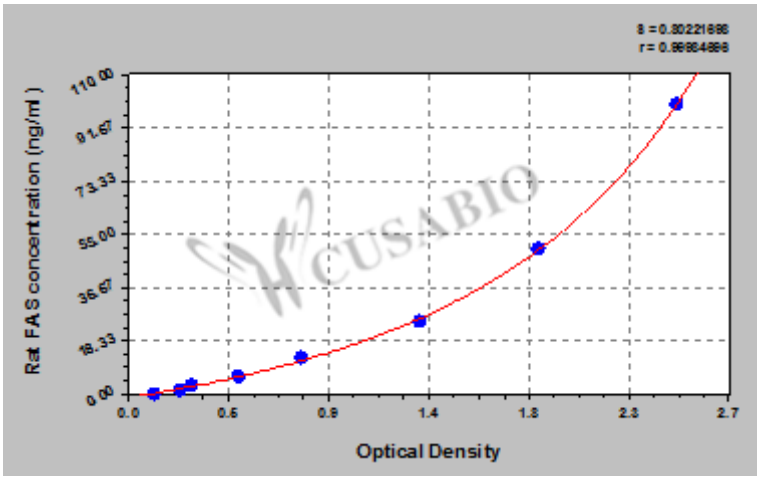
Recovery

The recovery of rat FAS spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	100	96-108
EDTA plasma (n=4)	97	90-100

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
100	2.572	2.427	2.500	2.371
50	1.837	1.902	1.870	1.741
25	1.353	1.308	1.331	1.202
12.5	0.775	0.819	0.797	0.668
6.25	0.512	0.516	0.514	0.385
3.12	0.305	0.294	0.300	0.171
1.56	0.245	0.251	0.248	0.119
0	0.131	0.127	0.129	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E16440r.pdf","filename":"MSDS"}}