



Rat Thyroid Stimulating Hormone, TSH ELISA Kit

Product Code	CSB-E05115r
Abbreviation	TSH
Target Name	Thyroid Stimulating Hormone, TSH
Uniprot No.	P04652
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.6 μ IU/mL-24 μ IU/mL
Sensitivity	0.3 μ IU/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	Signal Transduction
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 600 nm - 630 nm.</p> <p>An incubator that can provide stable incubation conditions up to 37°C\pm5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
Gene Names	Tshb
Tag Info	quantitative
Protein Description	Sandwich
Component	<p>A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-rat TSH antibody.</p> <p>Standard 7 x 0.5 ml--- Dilute the standard at dilution series, read the OD values, and then draw a standard curve.</p>



HRP-conjugated TSH antibody 1 x 6 ml --- Bind to the TSH in the sample or in the standard and react with the TMB substrate to make the solution chromogenic.

Wash Buffer (20 x concentrate) 1 x 15 ml --- Wash away unbound or free substances.

Substrate A 1 x 7 ml --- Mix with Substrate B, and the mixture reacts with HRP to make the solution appear blue.

Substrate B 1 x 7 ml --- Mix with Substrate A, and the mixture reacts with HRP to make the solution appear blue.

Stop Solution 1 x 7 ml --- Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.
An instruction manual

Description

This Rat TSH ELISA Kit was designed for the quantitative measurement of Rat TSH protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.6 μ IU/mL-24 μ IU/mL and the sensitivity is 0.3 μ IU/mL.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%

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

Inter-assay Precision (Precision between assays): CV%<15%

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 TSH 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 %	93
	Range %	87-98
1:2	Average %	87
	Range %	84-90
1:4	Average %	91
	Range %	85-96
1:8	Average %	95
	Range %	90-99

Recovery

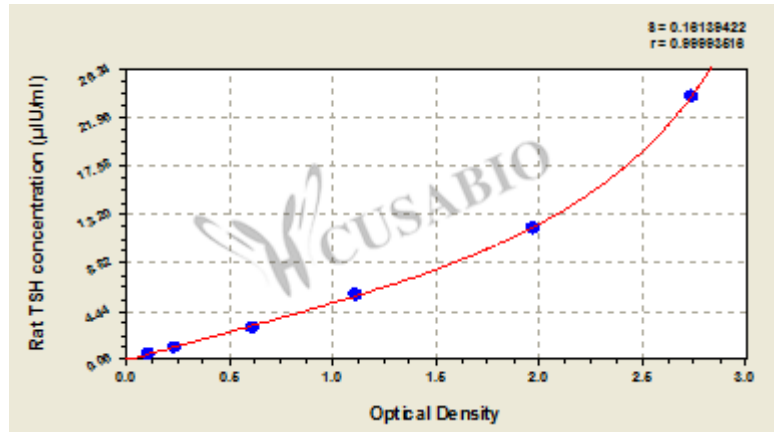
The recovery of rat TSH spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

	Sample Type	Average % Recovery	Range
	Serum (n=5)	96	91-100
	EDTA plasma (n=4)	93	88-99



Typical

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



µIU/ml	OD1	OD2	Average
24	2.756	2.781	2.769
12	1.997	1.988	1.993
6	1.142	1.124	1.133
3	0.634	0.613	0.624
1.2	0.244	0.253	0.249
0.6	0.115	0.117	0.116

Msds

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