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Datasheet for ABIN6959968 TSH ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	TSH
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.3 mlU/L - 12.0 mlU/L
Minimum Detection Limit:	0.3 mlU/L
Application:	ELISA

Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TSH in
	human serum.
Sample Type:	Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Thyroid Stimulating
	Hormone (TSH)
Sensitivity:	0.14 mIU/L
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom
	Plate sealer for 96 wells
	Reference Standard
	Ctandard Diluant

• Standard Diluent

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- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

Target:	TSH
Abstract:	TSH Products
Target Type:	Hormone
Application Details	
Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 µL
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 100 μ L standard or sample to each well. Incubate 1 hours at 37 °C,
	3. Aspirate and add 100 μL prepared Detection Reagent A. Incubate 1 hour at 37 °C,

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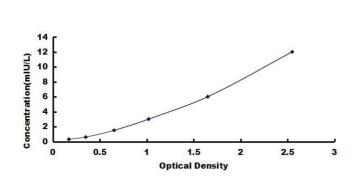
	 4. Aspirate and wash 3 times, 5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C, 6. Aspirate and wash 5 times, 7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C, 8. Add 50µL Stop Solution. Read at 450nm immediately.
Reagent Preparation:	 Bring all kit components and samples to room temperature (18-25 °C) before use. Standard - The concentration of the standard is as following: 12.0mIU/L, 6.0mIU/L, 3.0mIU/L, 1.5mIU/L, 0.6mIU/L, 0.3mIU/L. Wash Solution - Dilute 15 mL of Wash Solution concentrate (20x) with 285 mL of deionized or distilled water to prepare 300 mL of Wash Solution (1x). TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.
	Note: 1. If crystals have formed in the Wash Solution concentrate (20x), warm to room temperature and mix gently until the crystals are completely dissolved.
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturation may occur in these samples, leading to false results. Samples should therefore be stored for a short period at 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thaw cycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged to remove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to determine compatibility with the kit. If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only. Please estimate the concentration of the samples before performing the test. If the values are not in the range of the standard curve, the optimal sample dilution for the particular experiment has to be determined.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of target were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of target were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Restrictions:	For Research Use only

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Handling

Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
Storage:	4 °C/-20 °C
Storage Comment:	 For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent, and 96-well Strip Plate should be stored at -20 °C upon receipt while the other reagents should be stored at 4 °C.
	2. For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.
Expiry Date:	6 months
Publications	
Product cited in:	Le Stunff, Tilotta, Sadoine, Le Denmat, Briet, Motte, Clauser, Bougnères, Chaussain, Silve: "
	Knock-In of the Recurrent R368X Mutation of PRKAR1A that Represses cAMP-Dependent
	Protein Kinase A Activation: A Model of Type 1 Acrodysostosis." in: Journal of bone and
	mineral research : the official journal of the American Society for Bone and Mineral
	Research , Vol. 32, Issue 2, pp. 333-346, (2016) (PubMed).

Images



ELISA

Image 1. Typical standard curve