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Datasheet for ABIN6958847 POMC ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	POMC
Reactivity:	Rat
Method Type:	Competition ELISA
Detection Range:	123.46 pg/mL - 10000 pg/mL
Minimum Detection Limit:	123.46 pg/mL
Application:	ELISA

## Product Details

Purpose:	The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of proopiomelanocortin in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Proopiomelanocortin (POMC)
Sensitivity:	52.5 pg/mL
Components:	<ul> <li>Pre-coated, ready to use 96-well strip plate, flat buttom</li> <li>Plate sealer for 96 wells</li> <li>Reference Standard</li> </ul>

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- Standard Diluent
- 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:	POMC
Abstract:	POMC Products
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Peptide Hormone Metabolism, Hormone
	Activity, Feeding Behaviour

### **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:	50 µL
Assay Time:	2 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,

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Sample Preparation:	• It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should
	and mix gently until the crystals are completely dissolved. 7. Contaminated water or container for reagent preparation will influence the detection result.
	once. 6. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	5. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used onl
	are calibrated. It is recommended to suck more than $10\mu$ L for once pipetting.
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	4. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	volume errors.
	3. Detection Reagent A and B are sticky solutions, therefore, slowly pipette them to reduce the
	<ol> <li>Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.</li> </ol>
	1. Making serial dilution in the wells directly is not permitted.
	Note:
	dump the residual solution into the vial again.
	5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	or distilled water to prepare 600 mL of Wash Solution (1x).
	respectively (1:100). 4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	A and Detection B before use. Dilute to the working concentration with Assay Diluent A and E
	3. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection
	123.5pg/mL, and the last EP tubes with Standard Diluent is the blank as $0$ pg/mL.
	diluted standard such as 10,000pg/mL, 3,333.3pg/mL, 1,111.1pg/mL, 370.4pg/mL,
	containing 0.6 mL Standard Diluent and produce a triple dilution series according to the picture shown below. Mix each tube thoroughly before the next transfer. Set up 5 points of
	diluted standard serves as the highest standard (10,000pg/mL). Then prepare 5 tubes
	solution is 100,000pg/mL. Please firstly dilute the stock solution to 10,000pg/mL and the
	room temperature, shake gently(not to foam). The concentration of the standard in the stoc
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, kept for 10 minutes a
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use.
	7. Add 50µL Stop Solution. Read at 450 nm immediately.
	6. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	5. Aspirate and wash 5 times,
	4. Add 100 $\mu$ L prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	3. Aspirate and wash 3 times,
	Shake and mix. Incubate 1 hour at 37 °C,
	Then add 50µL prepared Detection Reagent A immediately.

Storage: Storage Comment:	4 °C/-20 °C 1. For unopened kit: All reagents should be stored according to the labels on the vials. The
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.
Handling	
Restrictions:	For Research Use only
	Inter-Assay: CV < 12%
	Intra-Assay: CV < 10%
	CV(%) = SD/meanX100
	target were tested on 3 different plates, 8 replicates in each plate.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level o
	target were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
	• Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular
	recommended dilution factor is for reference only.
	possibilityof causing a deviation due to the introduced chemical substance. The
	If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
	determinecompatibility with the kit.
	<ul><li>samples should be slowly thawed and centrifuged toremove precipitates.</li><li>If the sample type is not specified in the instructions, a preliminary test is necessary to</li></ul>
	3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤

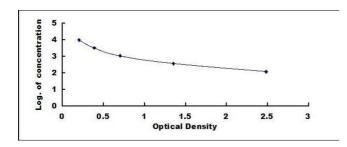
Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C.

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

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#### **ELISA**

Image 1. Typical standard curve

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