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UGT1A1 ELISA Kit





7.8 pg/mL

· Assay plate

Publication



Go to Product page

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Sensitivity:

Components:

Overview	
Quantity:	96 tests
Target:	UGT1A1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA
Product Details	
Purpose:	For the quantitative determination of rat UDP-glucumno-syltransferase 1 (UGT1)
	concentrations in serum, plasma, tissue homogenates.
Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of rat UGT1. No significant
	cross-reactivity or interference between rat UGT1 and analogues was observed. Note: Limited
	by current skills and knowledge, it is impossible for us to complete the cross-reactivity

detection between rat UGT1 and all the analogues, therefore, cross reaction may still exist.

- Standard
- HRP-avidin (100 x concentrate)
- Biotin-antibody (100 x concentrate)
- · Sample Diluent
- · HRP-avidin Diluent
- · Biotin-antibody Diluent
- Wash Buffer (25 x concentrate)
- · TMB Substrate
- · Stop Solution
- · Adhesive Strip

UGT1A1

Target Details

Alternative Name:

Target:

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Background:	Abbreviation: UGT1A1			
	Alias: GNT1, HUG-BR1, UDPGT, UGT1, UGT1A, UDP glucuronosyltransferase 1A1 UDP			
	glycosyltransferase 1 family, polypeptide A1 bilirubin UDP-glucuronosyltransferase 1-1 bilirubin			
	UDP-glucuronosyltransferase is			
UniProt:	Q64550			
Pathways:	Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha			
Application Details				
Application Notes:	Optimal working dilution should be determined by the investigator.			
Sample Volume:	100 μL			
Assay Time:	1 - 4.5 h			
Plate:	Pre-coated			
Protocol:	1. Prepare reagents, samples and standards as instructed.			
	2. Add 100 μL standard or sample to each well. Incubate 2 hours at 37 °C.			
	3. Remove the liquid of each well, don't wash.			
	4. Add 100 μL Biotin-antibody (1x) to each well. Incubate 1 hour at 37 °C.			
	5. Aspirate and wash 3 times.			
	6. Add 100 µL HRP-avidin (1x) to each well. Incubate 1 hour at 37 °C			
	7. Aspirate and wash 5 times.			
	8. Add 90 μ L of TMB Substrate to each well. Incubate for 15-30 minutes at 37 $^{\circ}$ C. Protect from light.			

UDP glucuronosyltransferase 1 family, polypeptide A1 (UGT1A1 Products)

9. Add 50 µL Stop Solution to each well. Read at 450 nm within 5 minutes.

Reagent Preparation:

- 1. Biotin-antibody (1x) Centrifuge the vial before opening. Biotin-antibody requires a 100-fold dilution. A suggested 100-fold dilution is 10 μ L of Biotin-antibody + 990 μ L of Biotin-antibody Diluent.
- 2. HRP-avidin (1x) Centrifuge the vial before opening. HRP-avidin requires a 100-fold dilution. A suggested 100-fold dilution is 10 μ L of HRP-avidin + 990 μ L of HRP-avidin Diluent.
- 3. Wash Buffer(1x)- If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x).
- 4. Standard Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1.0 mL of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 2000 pg/mL. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 250 µL of Sample Diluent into each tube (S0-S6). Use the stock solution to produce a 2-fold dilution series (below). Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard (2000 pg/mL). Sample Diluent serves as the zero standard (0 pg/mL).

Note:

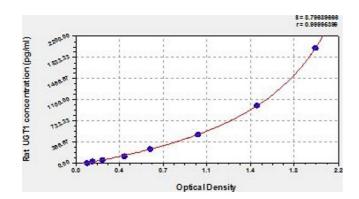
- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- Bring all reagents to room temperature (18-25 °C) before use for 30 min.
- $\bullet\,$ Prepare fresh standard for each assay. Use within 4 hours and discard after use.
- · Making serial dilution in the wells directly is not permitted.
- Please carefully reconstitute Standards according to the instruction, and avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10 µL for once pipetting.
- Distilled water is recommended to be used to make the preparation for reagents or samples.

 Contaminated water or container for reagent preparation will influence the detection result.

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 therefore be stored for a short periodat 2 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove 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 therange of the standard curve, the optimal sample dilution for the particular

	experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).
Assay 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.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage Comment:	Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for
	up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and
	avoid the damp. Standard May be stored for up to 1 month at 2 - 8° C. If Biotin-antibody don't
	make recent use, better keep it store at HRP-avidin -20°C. Biotin-antibody Diluent Opened kit
	HRP-avidin Diluent Sample May be stored for up to 1 month at 2 - 8°C. Diluent Wash Buffer
	TMB Substrate Stop Solution *Provided this is within the expiration date of the kit.
Expiry Date:	6 months
Publications	
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Product cited in:	Schlüter, Wolf, Weber, Schreckenberg, Schulz: "Oxidized low-density lipoprotein (oxLDL) affects
Product cited in:	Schlüter, Wolf, Weber, Schreckenberg, Schulz: "Oxidized low-density lipoprotein (oxLDL) affects load-free cell shortening of cardiomyocytes in a proprotein convertase subtilisin/kexin 9
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Product cited in:	load-free cell shortening of cardiomyocytes in a proprotein convertase subtilisin/kexin 9 (PCSK9)-dependent way." in: Basic research in cardiology , Vol. 112, Issue 6, pp. 63, (2018) (
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ELISA

Image 1. Typical Standard Curve