

# Datasheet for ABIN5653604

### **DIO3 ELISA Kit**



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Quantity:	96 tests
Target:	DIO3
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

### **Product Details**

Sample Type:	Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Deiodinase, lodothyronine, Type III (DIO3). No significant cross-reactivity or interference between Deiodinase, lodothyronine, Type III (DIO3) and analogues was observed.
Sensitivity:	0.117 ng/mL

### **Target Details**

Target:	DI03
Alternative Name:	Deiodinase, Iodothyronine, Type III (DIO3 Products)

# Target Details Background: Gene Name: Deiodinase, Iodothyronine, Type III Gene Aliases: ITDI3, TXDI3, Type-III 5'-deiodinase Gene ID: 29475 UniProt: P49897 Pathways: Hormone Activity Application Details Comment: The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence

Comment:	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than
	5 % within the expiration date under appropriate storage condition. To minimize extra influence
	on the performance, operation procedures and lab conditions, especially room temperature, air
	humidity, incubator temperature should be strictly controlled. It is also strongly suggested that
	the whole assay is performed by the same operator from the beginning to the end.
Assay Time:	3 h

Plate:	Pre-coated Pre-coated
	. To obtain

Protocol:

Assay Precision:

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Deiodinase, lodothyronine, Type III (DIO3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Deiodinase, lodothyronine, Type III (DIO3). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Deiodinase, lodothyronine, Type III (DIO3), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Deiodinase, lodothyronine, Type III (DIO3) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Deiodinase, lodothyronine, Type III (DIO3) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Deiodinase, lodothyronine, Type III (DIO3) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%

Inter-Assay: CV<12%

Restrictions: For Research Use only

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## Handling

Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months