

## Human Type II iodothyronine deiodinase ELISA Kit | DIO2 elisa kit

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CATALOG #  
**AAA101051**

REACTIVITY  
**Human**

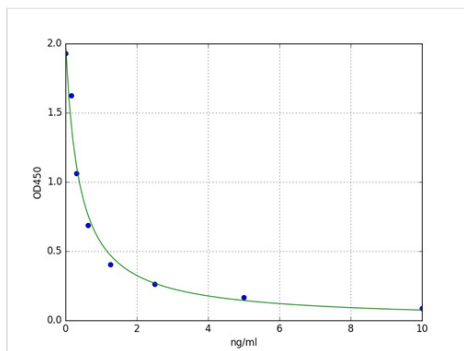
### PRODUCT SYNONYMS

Type II iodothyronine deiodinase; Human Type II iodothyronine deiodinase ELISA Kit; DIO2/Type-II 5'-deiodinase/Type 2 DI/5DII/DIOII/ITDI2/TXDI2; DIO2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Sequence Length         | 74                                                                                                                                                           |
| Assay Type              | Competitive ELISA, Coated with Antigen                                                                                                                       |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                         |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                |
| Sensitivity             | 0.094ng/ml                                                                                                                                                   |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C |

### IMAGES



Standard Curve (Sample)

**Typical Data & Standard Curve**  
Results of a typical standard run of a DIO2 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (O/A=not applicable)

| X | ng/ml | 0     | 0.156 | 0.312 | 0.625 | 1.25  | 2.5   | 5     | 10    |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 2.623 | 2.155 | 1.865 | 1.437 | 1.098 | 0.793 | 0.654 | 0.462 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for DIO2 elisa kit

**Principle of the Assay**||This ELISA kit uses Competitive-ELISA as the method. The microtiter plate provided in this kit has been pre-coated with an antibody specific to DIO2. During the reaction,DIO2 in the sample or standard competes with a fixed amount of biotin-labeled DIO2 for sites on a pre-coated Monoclonal antibody specific to DIO2. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of DIO2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

### NCBI AND UNIPROT INFORMATION

NCBI GI #

12697587

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GeneID                      | 1734                                      |
| Molecular Weight                 | 34,704 Da                                 |
| NCBI Official Full Name          | type II iodothyronine deiodinase, partial |
| NCBI Official Synonym Full Names | deiodinase, iodothyronine, type II        |
| NCBI Official Symbol             | DIO2                                      |
| NCBI Official Synonym Symbols    | D2; 5DII; SeIY; DIOII; TXDI2              |
| NCBI Protein Information         | type II iodothyronine deiodinase          |
| UniProt Protein Name             | Type II iodothyronine deiodinase          |
| UniProt Gene Name                | DIO2                                      |
| UniProt Synonym Gene Names       | ITDI2; TXDI2                              |
| UniProt Entry Name               | IOD2_HUMAN                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dio2-human-elisa-kits/type-ii-iodothyronine-deiodinase/101051>