

Mouse Deiodinase, Iodothyronine, Type III (DIO3) ELISA Kit | DIO3 elisa kit

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CATALOG #
AAA135708

REACTIVITY
Mouse

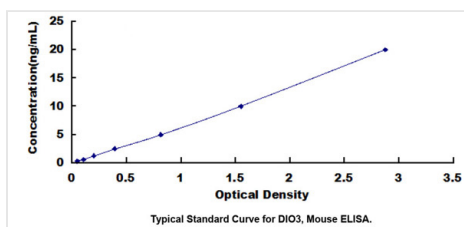
PRODUCT SYNONYMS

Deiodinase; Iodothyronine; Type III (DIO3); Mouse Deiodinase; Type III (DIO3) ELISA Kit; ITDI3; TXDI3; Type-III 5'-deiodinase; DIO3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of DIO3. No significant cross-reactivity or interference between DIO3 and analogues was observed.
Sequence Length	278
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DIO3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DIO3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DIO3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DIO3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 DIO3 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DIO3 in mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for DIO3 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	56103188
NCBI GeneID	1735
UniProt Accession #	P55073; Q8WVN5; G3XAM0
Molecular Weight	33,947 Da
NCBI Official Full Name	Deiodinase, iodothyronine, type III
NCBI Official Synonym Full Names	deiodinase, iodothyronine, type III
NCBI Official Symbol	DIO3
NCBI Official Synonym Symbols	D3; 5DIII; TXDI3; DIOIII
NCBI Protein Information	type III iodothyronine deiodinase
UniProt Protein Name	Type III iodothyronine deiodinase
UniProt Gene Name	DIO3
UniProt Synonym Gene Names	ITDI3; TXDI3
UniProt Entry Name	IOD3_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/mouse-elisa-kits/deiodinase-iodothyronine-type-iii-dio3/135708>