

Human Tryptophan-2,3-dioxygenase (TDO) ELISA Kit | TDO elisa kit

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CATALOG #
AAA137293

REACTIVITY
Human

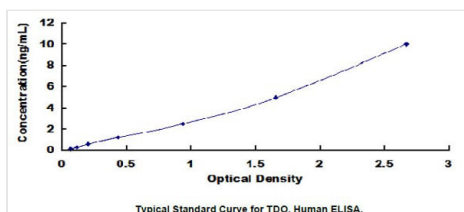
PRODUCT SYNONYMS

Tryptophan-2; 3-dioxygenase (TDO); Human Tryptophan-2; 3-dioxygenase (TDO) ELISA Kit; TDO2; TPH2; TO; TRPO; Tryptophanase; Tryptophan oxygenase; TDO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TDO. No significant cross-reactivity or interference between TDO and analogues was observed.
Sequence Length	406
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TDO 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 TDO 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 TDO elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TDO. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TDO. 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 TDO, 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 TDO in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for TDO elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	5032165
NCBI GeneID	6999
NCBI Accession #	NP_005642.1
NCBI GenBank Nucleotide #	NM_005651.3
UniProt Accession #	P48775; A8K053
Molecular Weight	47,872 Da
NCBI Official Full Name	tryptophan 2,3-dioxygenase
NCBI Official Synonym Full Names	tryptophan 2,3-dioxygenase
NCBI Official Symbol	TDO2
NCBI Official Synonym Symbols	TO; TDO; TPH2; TRPO
NCBI Protein Information	tryptophan 2,3-dioxygenase
UniProt Protein Name	Tryptophan 2,3-dioxygenase
UniProt Gene Name	TDO2
UniProt Synonym Gene Names	TDO; TO; TRPO
UniProt Entry Name	T23O_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/tryptophan-23-dioxygenase-tdo/137293>