

Rat Tryptophan-2, 3-dioxygenase ELISA Kit | TDO elisa kit

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CATALOG #
AAA17141

REACTIVITY
Rat

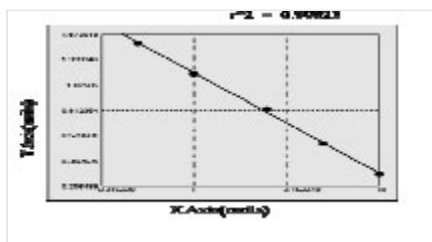
PRODUCT SYNONYMS

Tryptophan-2; 3-dioxygenase; Rat Tryptophan-2; 3-dioxygenase ELISA Kit; TDO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TDO elisa kit

Intended Uses: This TDO2,3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat TDO2,3. This ELISA kit for research use only!

Principle of the Assay: TDO2,3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-TDO2,3 antibody and an TDO2,3-HRP conjugate. The assay sample and buffer are incubated together with TDO2,3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the TDO2,3 concentration since TDO2,3 from samples and TDO2,3-HRP conjugate compete for the anti-TDO2,3 antibody binding site. Since the number of sites is limited, as more sites are occupied by TDO2,3 from the sample, fewer sites are left to bind TDO2,3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TDO2,3 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #

5032165

NCBI GeneID	6999
NCBI Accession #	NP_005642.1
NCBI GenBank Nucleotide #	NM_005651.3
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; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; tryptamin 2,3-dioxygenase
UniProt Protein Name	Tryptophan 2,3-dioxygenase
UniProt Gene Name	TDO2
UniProt Synonym Gene Names	TDO; 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.

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Online datasheet: <https://stage.aaabiotech.com/tdo-rat-elisa-kits/tryptophan-2-3-dioxygenase/17141>