

General Tartrazine (TZ) ELISA Kit | TZ elisa kit

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CATALOG #
AAA149187

REACTIVITY
General

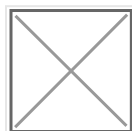
PRODUCT SYNONYMS

Tartrazine (TZ); General Tartrazine (TZ) ELISA Kit; Trisodium 1-(4-sulfonatophenyl)-4-(4-sulfonatophenylazo)-5-pyrazolone-3-carboxylate); TZ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of T4. No significant cross-reactivity or interference between T4 and analogues was observed.
Sequence Length	349
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	617.3-50,000pg/mL
Sensitivity	284.4pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level T4 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 T4 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 TZ elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of T4 in serum, plasma and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to T4 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled T4 and unlabeled T4 (Standards or samples) with the pre-coated antibody specific to T4. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of T4 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of T4 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15239735
NCBI GeneID	835567
NCBI Accession #	NP_200288.1
NCBI GenBank Nucleotide #	NM_124858.4
UniProt Accession #	Q38814
Molecular Weight	29,362 Da
NCBI Official Full Name	thiazole biosynthetic enzyme, chloroplast (ARA6) (THI1) (THI4)
NCBI Official Symbol	THI1
NCBI Official Synonym Symbols	MBG8.3; MBG8_3; THI1 PROTEIN; THI4; THIAMINE4; THIAZOLE REQUIRING; TZ
NCBI Protein Information	thiazole biosynthetic enzyme, chloroplast (ARA6) (THI1) (THI4)
UniProt Protein Name	Thiamine thiazole synthase, chloroplastic
UniProt Gene Name	THI1
UniProt Synonym Gene Names	ARA6; THI4

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.