

Human TGF-alpha ELISA Kit | TGF-alpha elisa kit

Human TGF-alpha (Transforming Growth Factor alpha) ELISA Kit

CATALOG #
AAA164227

REACTIVITY
Human

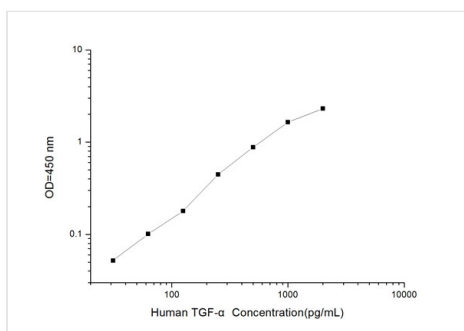
PRODUCT SYNONYMS

TGF-alpha; Human TGF-alpha (Transforming Growth Factor alpha) ELISA Kit; TGF-alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This kit recognizes Human TF in samples. No significant cross-reactivity or interference between Human TF and analogues was observed.
Sequence Length	173
Samples	Serum, Plasma, Urine. Please Consult Technical Support For The Applicability If Other Biological Fluids Need To Be Tested
Assay Type	Quantitative Sandwich
Detection Range	0.14-100ng/ML
Sensitivity	0.13ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human TF were tested 20 times on one plate, respectively
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human TF were tested on 3 different plates,20 replicates in each plate.
Preparation and Storage	Store at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGF-alpha elisa kit	Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Human TF concentrations in serum, plasma, urine. Please consult technical support for the applicability if other biological fluids need to be tested. Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human TF. Samples (or Standards) and biotinylated detection antibody specific for Human TF are added to the micro ELISA plate wells. Human TF would combined with the specific antibody. Then Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human TF, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 +/- 2 nm. The OD value is proportional to the concentration of Human TF. You can calculate the concentration of Human TF in the samples by comparing the OD of the samples to the standard curve!!Background/Introduction: Transferrin is an iron binding protein found in blood plasma that is critical to cell health. Transferrin supplies iron to cells naturally in the body and as a supplement in cell culture media Transferrin (Tf) carries ferric iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body [1]. It shares homologous amino acid sequences with four other proteins: lactotransferrin, ovotransferrin, melanoma antigen p97, and HuBlym-1. Antigen p97 and the Tf receptor genes have been mapped on human chromosome 3. Transferrin has a molecular weight of around 80 kDa and contains two specific high-affinity Fe (III) binding sites. The affinity of transferrin for Fe (III) is extremely high (association constant is 1020M-1 at pH 7.4) but decreases progressively with decreasing pH below neutrality [2]. When not bound to iron, transferrin is known as Apo transferrin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	297499581
Molecular Weight	19,279 Da
NCBI Official Full Name	TGF-alpha, partial
UniProt Protein Name	TGF-alpha
UniProt Gene Name	tgfa
UniProt Entry Name	D7RNZ2_GRYBI

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.