

General TGF-beta1 (Transforming Growth Factor Beta 1) ELISA Kit | TGF-beta1 elisa kit

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CATALOG #
AAA177845

REACTIVITY
General

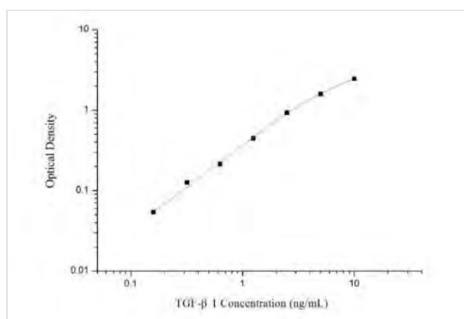
PRODUCT SYNONYMS

TGF-beta1 (Transforming Growth Factor Beta 1); TGF-beta1 (Transforming Growth Factor Beta 1) ELISA Kit; TGF-beta1; TGF-beta1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This kit recognizes TGF-beta1 in samples. No significant cross-reactivity or interference between TGF-beta1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	0.16-10ng/mL
Sensitivity	0.1ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level TGF-beta1 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 TGF-beta1 were tested on 3 different plates, 20 replicates in each plate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGF-beta1 elisa kit	Background: Transforming Growth Factor Beta-1 (TGF-beta1) is a pleiotropic cytokine with potent anti-inflammatory property, and has been considered an essential risk factor in the inflammatory process of Ischemic Stroke (IS) by involving in the pathophysiological progression of lipid metabolisms, hypertension, and atherosclerosis [1]. TGF-beta1 gene is located on chromosome 19 (q13.1-13.3), including 7 exons and 6 introns. The TGFbeta-1 protein is found throughout the body but is particularly abundant in tissues that make up the skeleton, where it helps regulate the formation and growth of bone and cartilage, a tough, flexible tissue that makes up much of the skeleton during early development. TGFbeta-1 is also involved in the formation of blood vessels, development of muscle tissue and body fat, wound healing, inflammatory processes in the immune system, and prevention of tumor growth [2]. 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 TGF-beta1. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for TGF-beta1 and 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 TGF-beta1, 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 TGF-beta1. You can calculate the concentration of TGF-beta1 in the samples by comparing the OD of the samples to the standard curve. Intended Uses: This ELISA kit applies to the in vitro quantitative determination of TGF-beta1 concentrations in serum, plasma and other biological fluids.
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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/general-elisa-kits/tgf-beta1-transforming-growth-factor-beta-1/177845>