

Rat Platelet-derived growth factor-B (PDGF-B) ELISA Kit

Catalog No: #EK8613

Package Size: #EK8613-1 48T #EK8613-2 96T

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Description

Product Name	Rat Platelet-derived growth factor-B (PDGF-B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	FLJ12858; PDGF2; SIS; SSV; c-sis; PDGF; B chain Platelet-derived growth factor; beta polypeptide (oncogene SIS) becaplermin platelet-derived growth factor 2 platelet-derived growth factor beta plate
Accession No.	Q05028
Uniprot	Q05028
GeneID	24628;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:31.25-2000 pg/mL
Sensitivity:13.2 pg/mL
Sample Type:Serum, Plasma, Other biological fluids
Sample Volume: 1-200 µL
Assay Time:1-4.5h
Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PDGFB in samples. An antibody specific for PDGFB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDGFB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDGFB is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PDGFB bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Platelet-derived growth factor subunit B is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two splice variants have been identified for this gene.

Note: This product is for in vitro research use only