Rat Prostacycline (PGI2) ELISA Kit

Catalog No: #EK8544

Description

Package Size: #EK8544-1 48T #EK8544-2 96T



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	Rat Prostacycline (PGI2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Storage	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.
	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).

Application Details

Detect Range:0.25-50 ng/mL
Sensitivity:0.125 ng/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 PGI2 in samples. An antibody specific for PGI2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGI2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGI2 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 PGI2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Product Overview: Prostacyclin is produced in endothelial cells from prostaglandin H2 (PGH2) by the action of the enzyme prostacyclin synthase. Although prostacyclin is considered an independent mediator, it is called PGI2 in eicosanoid nomenclature, and is a member of the prostanoids. The series-3 prostaglandin PGH3 also follows the prostacyclin synthase pathway, yielding another prostacyclin, PGI3. The unqualified term 'prostacyclin' usually refers to PGI2. PGI2 is derived from the -6 arachidonic acid. PGI3 is derived from the -3 EPA. Prostacyclin (PGI2) chiefly prevents formation of the platelet plug involved in primary hemostasis (a part of blood clot formation). It does this by inhibiting platelet activation. It is also an effective vasodilator. Prostacyclin's interactions in contrast to thromboxane (TXA2), another eicosanoid, strongly suggest a mechanism of cardiovascular homeostasis between the two hormones in relation to vascular damage.

Note: This product is for in vitro research use only