

# Mouse Prostacyclin synthase (PTGIS) ELISA Kit

Catalog No: #EK8026



Package Size: #EK8026-1 48T #EK8026-2 96T

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## Description

Product Name	Mouse Prostacyclin synthase (PTGIS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CYP8; CYP8A1; MGC126858; MGC126860; PGIS; PTGI; cytochrome P450; family 8; subfamily A; polypeptide 1 prostaglandin I2 synthase
Accession No.	O35074
Uniprot	O35074
GenID	19223;
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:Request Information

Sensitivity:Request Information

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 PTGIS in samples. An antibody specific for PTGIS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTGIS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGIS 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 PTGIS bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Prostaglandin I2 (prostacyclin) synthase is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostaglandin H2 to prostacyclin (prostaglandin I2), a potent vasodilator and inhibitor of platelet aggregation. An imbalance of prostacyclin and its physiological antagonist thromboxane A2 contribute to the development of myocardial infarction, stroke, and atherosclerosis.

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Note: This product is for in vitro research use only