

## Recombinant Human PTGIS 293 Cell Lysate

**Cat. No.** PTGIS-2709HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for prostaglandin I <sub>2</sub> (prostacyclin) synthase (PTGIS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [PTGIS prostaglandin I2 \(prostacyclin\) synthase \[ Homo sapiens \]](#)

**Official Symbol** [PTGIS](#)

**Synonyms** [PTGIS](#); prostaglandin I2 (prostacyclin) synthase; prostacyclin synthase; CYP8A1; cytochrome P450; family 8; subfamily A; polypeptide 1; [PGIS](#); prostaglandin I2 synthase; cytochrome P450, family 8, subfamily A, polypeptide 1; CYP8; [PTGI](#); [MGC126858](#); [MGC126860](#);

**Gene ID** [5740](#)

**mRNA Refseq** [NM\\_000961](#)

**Protein Refseq** [NP\\_000952](#)

**MIM** [601699](#)

**UniProt ID** [Q16647](#)

**Chromosome Location** [20q13](#)

**Pathway** [Adipogenesis, organism-specific biosystem](#); [Arachidonic acid metabolism, organism-specific biosystem](#); [Arachidonic acid metabolism, conserved biosystem](#); [Biological oxidations, organism-specific biosystem](#); [Cytochrome P450 - arranged by substrate type, organism-specific biosystem](#); [Eicosanoid Synthesis, organism-specific biosystem](#); [Eicosanoids, organism-specific biosystem](#);

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**Function**

electron carrier activity; heme binding; isomerase activity; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; prostaglandin-I synthase activity;

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