

## Recombinant Human PTGS1 293 Cell Lysate

**Cat. No.** PTGS1-2706HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), transcript variant 1 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

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the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	PTGS1 prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) [ Homo sapiens ]
<b>Official Symbol</b>	PTGS1
<b>Synonyms</b>	PTGS1; prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin G/H synthase 1; COX1; PGHS 1; PTGHS; COX-1; PHS 1; PGH synthase 1; cyclooxygenase-1; prostaglandin H2 synthase 1; prostaglandin G/H synthase and cyclooxygenase; COX3; PHS1; PCOX1; PGHS1; PGG/HS; PGHS-1;
<b>Gene ID</b>	<a href="#">5742</a>
<b>mRNA Refseq</b>	<a href="#">NM_000962</a>
<b>Protein Refseq</b>	<a href="#">NP_000953</a>
<b>MIM</b>	<a href="#">176805</a>
<b>UniProt ID</b>	<a href="#">P23219</a>
<b>Chromosome Location</b>	9q32-q33.3
<b>Pathway</b>	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific

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biosystem; COX reactions, organism-specific biosystem; Eicosanoid Synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

**Function**

heme binding; lipid binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; peroxidase activity; prostaglandin-endoperoxide synthase activity;

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