

Recombinant Human PTGIS 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for prostaglandin I₂ (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.

Components

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).

Size 0.1 mg

Storage Instruction

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.

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Applications

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 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

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type, organism-specific biosystem; Eicosanoid Synthesis, organism-specific biosystem; Eicosanoids, organism-specific biosystem;

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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