

Recombinant Human PTGIS

Cat. No. PTGIS-30325TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PTGIS with a N terminal proprietary tag: predicted molecular weight 81.07 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	500 amino acids
Description	This gene encodes 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 prostglandin 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.
Molecular Weight	81.070kDa inclusive of tags
Tissue specificity	Widely expressed; particularly abundant in ovary, heart, skeletal muscle, lung and prostate.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAWAALLGLLAALLLLLLLSRRRTRRPGEPPDLGSIPWL GYALDFGKDAASFLTRM KEKHGDIFTILVGGRYVTVLLDP HSYDAVVWEPRTRLDFHAYAIFLMERIFDVQLPHY SPSDE KARMKLTLLHRELQALTEAMYTNLHAVLLGDATEAGSGWH EMGLLDFFSYS FLLRAGYLTLYGIEALPRTHESQAQDRVHS ADVFHTFRQLDRLLPKLARGSLSVGDK DHMC SVKSRLWKL LSPARLARRAHR SKWLESYLLHLEEMGVSEEMQARALVLQ L WATQGNMGPAAFWLLL FLLKNPEALAAVRGELESILWQA EQPVSQTTTLPQKVLDS TPVLDSVLSESLRLTAAPFITRE VVVDLAMP MADGREFNLRRGDRLLLFPFLSPQRD PEIYTD PEVFKYNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNH CLGRSYAV NSIKQFVFLVLVHLDLELINADVEIPEFDLSR YGFGLMQPEHDVPVRYRIRP
Sequence Similarities	Belongs to the cytochrome P450 family.
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;

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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;
Function	electron carrier activity; heme binding; isomerase activity; metal ion binding; monooxygenase activity;