Recombinant Full Length Human PTGIS Protein

Cat. No. PTGIS-412HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	81.070kDa inclusive of tags
AA Sequence	MAWAALLGLLAALLLLLLLSRRRTRRPGEPPLDLGSIPWL GYALDFGKDAASFLTRM

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	KEKHGDIFTILVGGRYVTVLLDP HSYDAVVWEPRTRLDFHAYAIFLMERIFDVQLPHY SPSDE KARMKLTLLHRELQALTEAMYTNLHAVLLGDATEAGSGWH EMGLLDFSYS FLLRAGYLTLYGIEALPRTHESQAQDRVHS ADVFHTFRQLDRLLPKLARGSLSVGDK DHMCSVKSRLWKL LSPARLARRAHRSKWLESYLLHLEEMGVSEEMQARALVLQ L WATQGNMGPAAFWLLLFLLKNPEALAAVRGELESILWQA EQPVSQTTTLPQKVLDS TPVLDSVLSESLRLTAAPFITRE VVVDLAMPMADGREFNLRRGDRLLLFPFLSPQRD PEIYTD PEVFKYNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNH CLGRSYAV NSIKQFVFLVLVHLDLELINADVEIPEFDLSR YGFGLMQPEHDVPVRYRIRP
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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
Gene ID	5740
mRNA Refseq	NM_000961
Protein Refseq	NP_000952

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MIM	601699
UniProt ID	Q16647

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