

Recombinant Human PTGIS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTGIS-2002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTGIS MS Standard C13 and N15-labeled recombinant protein (NP_000952) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 prostaglandin 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 Mass	57.1 kDa
AA Sequence	MAWAALLGLLAALLLLLLLSRRRTRRPGEPPDLGSIPLWLGALDFGKDAASFLTRM KEKHGDIPTILVGGRYVTVLLDPHSYDAVVWEPRTRLDFHAYAIFLMERIFDVQLPHY SPSDEKARMKLTLLHRELQALTEAMYTNLHAVLLGDATEAGSGWHEMGLLDFFSYF

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LLRAGYLTLYGIEALPRTHESQAQDRVHSADVHTFRQLDRLLPKLARGSLSVGDKD
 HMCSVKSRLWKLLSPARLARRAHRKWLSEYLLHLEEMGVSEEMQARALVLQLWA
 TQGNMGPAAFWLLLFLKNPEALAAVRGELESILWQAEQPVSTTTLPQKVLDPSTPV
 LDSVLSESLRLTAAPFITREVVDLAMPADGREFNLRRGDRLLLFPFLSPQRDPPIY
 TDPEVFKYNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQ
 FVFLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEHDVPVRYRIRPTRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PTGIS prostaglandin I2 synthase [Homo sapiens (human)]

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

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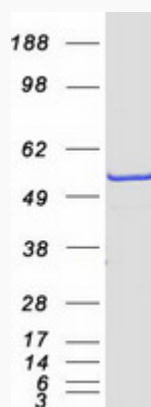
mRNA Refseq [NM_000961](#)

Protein Refseq [NP_000952](#)

MIM [601699](#)

UniProt ID [Q16647](#)

SDS-PAGE



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