

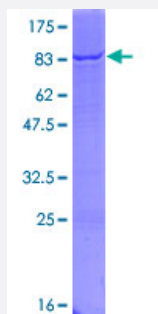
Full-Length

PTGIS (Human) Recombinant Protein (P01)

Catalog # H00005740-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTGIS full-length ORF (NP_000952.1, 1 a.a. - 500 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAWAALLGLLAALLLLLLLSRRRTRRPGEPLDLGSIPWLGYALDFGKDAASFLTRMKEKHGDIFTI
LVGGRYVTVLLDPHSYDAVVWEPRTRLDHFHAYAIFLMERIFDVQLPHYSPSDEKARMKLTLLHREL
QALTEAMYNLHAVLLGDATEAGSGWHEMGLLDFSYSFLLRAGYLTLYGIEALPRTHESQAQDRV
HSADVFTFRQLDRLLPKLARGSLVGDKDHMCVKSRLWKLLSPARLARRAHRKWLSESYLLH
LEEMGVSEEMQARALVLQLWATQGNMGPAAFWLLLFLLKNPEALAAVRGELESILWQAEQPVS
QTTTLPQKVLDSTPVLDSVLSLRLTAAPFITREVVVDLAMPADGREFNLRGDRLLFPFLSP
QRDPEYTDPEVFKNRFLNPDGSEKKDFYKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQFV
FLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEHDVPVRYRIRP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.5

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTGIS

Entrez GeneID[5740](#)**GeneBank Accession#**[NM_000961.3](#)**Protein Accession#**[NP_000952.1](#)**Gene Name**

PTGIS

Gene Alias

CYP8, CYP8A1, MGC126858, MGC126860, PGIS, PTGI

Gene Description

prostaglandin I2 (prostacyclin) synthase

Omim ID[145500 601699](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq

Other Designations

OTTHUMP00000031777|cytochrome P450, family 8, subfamily A, polypeptide 1

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyps](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Infant](#)

- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Pulmonary Embolism](#)
- [Renal Insufficiency](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Stroke](#)
- [Werner syndrome](#)