

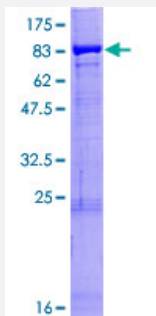
Full-Length

PTGS2 (Human) Recombinant Protein (P02)

Catalog # H00005743-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTGS2 full-length ORF (NP_000954.1, 1 a.a. - 604 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLARALLLC AVLALSHTANPCCSHPCQNRGVCMSVGFDQYKCDCTRTGFYGENCSTPEFLTRIK
LFLKPTPNTVHYILTHFKGFWNVNNIPFLRNAIMSYVLTSRSHLIDSPPTYNADYGKSWEAFSNLS
YYTRALPPVPDDCPTPLGVKGKKQLPDSNEMEKLLLRKFIPDPQGSNMMFAFFAQHFTHQFFK
TDHKRGPAFTNGLGHGVDLNHIYGETLARQRKLRLFKDGKMKYQIIDGEMYPPTVKDTQAEMIPP
QVPEHLRFVAVGQEVFGLVPGLMMYATWLREHNRVCDVLKQEHPEWGDQLFQTSRLILIGETIKI
VIEDYVQHLSGYHFKLKFDPELLFNKQFQYQNRIAAEFNTLYHWHPLLPTDFQIHDQKYNYYQQFIYN
NSILLEHGITQFVESFTRQIAGRVAGGRNVPPAVQKVSQASIDQSRQMKYQSFNEYRKRFLKPYE
SFEELTGEKEMSAELEALYGDIDAVELYPALLVEKPRPDAIFGETMVEVGAPFSLKGLMGNVICSP
AYWKPSTFGGEVGFQIINTASIQSLICNNVKGCPFTSFSPDPELIKTVTINASSSRSGLDDINPTVLL
KERSTEL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

95.4

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 — PTGS2

Entrez GeneID	5743
GeneBank Accession#	NM_000963.1
Protein Accession#	NP_000954.1
Gene Name	PTGS2
Gene Alias	COX-2, COX2, GRIPGHS, PGG/HS, PGHS-2, PHS-2, hCox-2
Gene Description	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
Omim ID	600262
Gene Ontology	Hyperlink
Gene Summary	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq]
Other Designations	OTTHUMP00000033524 cyclooxygenase 2b prostaglandin G/H synthase and cyclooxygenase prostaglandin-endoperoxide synthase 2

Pathway

- [Arachidonic acid metabolism](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [VEGF signaling pathway](#)

Disease

- [Acute Disease](#)
- [Acute-Phase Reaction](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Adenomatous Polyps](#)
- [Aggressive Periodontitis](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Aortic Aneurysm](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)

- [Atrophy](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Cognition](#)
- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)

- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Death](#)
- [Depressive Disorder](#)
- [Developmental Disabilities](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Digestive System Neoplasms](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Drug Hypersensitivity](#)
- [Ductus Arteriosus](#)
- [Duodenal Neoplasms](#)
- [Dyslipidemias](#)
- [Dyspepsia](#)
- [Edema](#)
- [Endometriosis](#)
- [Eosinophilia](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Fetal Diseases](#)
- [Fetal Growth Retardation](#)
- [Fetal Membranes](#)
- [Gallbladder Neoplasms](#)

- [Gallstones](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hodgkin Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Infant](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukoplakia](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Melanoma](#)

- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Motor Skills](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Oligohydramnios](#)
- [Oral Submucous Fibrosis](#)
- [Osteoarthritis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Peptic Ulcer](#)
- [Periodontitis](#)

- [Pharyngeal Neoplasms](#)
- [Placenta Diseases](#)
- [Postoperative Complications](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Thrombosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Diseases](#)

- [Vitiligo](#)
- [Werner syndrome](#)