

## Recombinant Human PTGS2 protein, His & T7-tagged

Cat. No. PTGS2-678H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PTGS2 aa. (Gly418~Asp589 (Accession # P35354)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gly418~Asp589
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 22.6kDa
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)
<b>Purity</b>	>95%

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<b>Characteristic</b>	The isoelectric point is 7.4.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	PTGS2 prostaglandin-endoperoxide synthase 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PTGS2
<b>Synonyms</b>	PTGS2; prostaglandin-endoperoxide synthase 2; COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS; prostaglandin G/H synthase 2; PGH synthase 2; PHS II; cyclooxygenase 2; cyclooxygenase 2b; prostaglandin H2 synthase 2; prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
<b>Gene ID</b>	5743
<b>mRNA Refseq</b>	NM_000963.3

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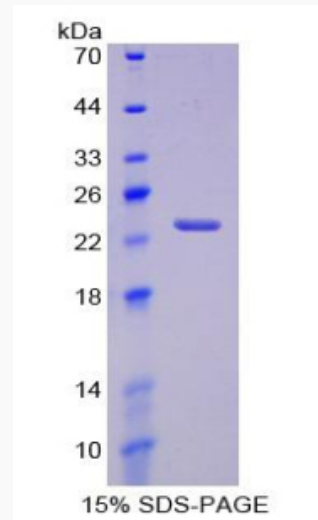
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**Protein Refseq** NP\_000954.1

**UniProt ID** P35354

**SDS-PAGE**



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