

Recombinant Human PTGS2 protein, His & T7-tagged

Cat. No. PTGS2-677H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTGS2 aa. (Phe187~Asn425 (Accession # P35354)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Phe187~Asn425
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 7.4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

GENE INFORMATION

Gene Name	PTGS2 prostaglandin-endoperoxide synthase 2 [Homo sapiens (human)]
Official Symbol	PTGS2
Synonyms	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)
Gene ID	5743
mRNA Refseq	NM_000963.3

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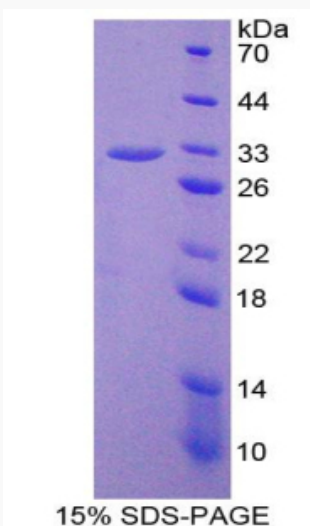
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Protein Refseq NP_000954.1

UniProt ID P35354

SDS-PAGE



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