Recombinant Human PTGS2, His-tagged

Cat. No. PTGS2-26360TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length COX2 / Cyclooxygenase 2 protein (Human), a homodimer (70-74 kDa/subunit), contains a six histidine tag near the N-terminus.Isolated from a Baculovirus overexpression system in Sf 21 cells.
Species	Human
ProteinLength	70-74 a.a.
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.
Conjugation	HIS
Biological activity	Specific Activity: minimum 8,000 units per mg protein
Form	Liquid
Storage buffer	Preservative: 300μM diethyldithio-carbamate (DDC)Constituents: 0.1% Tween 20, 80mM Tris HCl, pH 8Note: If this preservative (DDC) is undesirable, it can be removed by standard desalting procedures, but the enzyme is unstable in the

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45-1 Ramsey Road, Shirley, NY 11967, USA

	absence of the preserva
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the prostaglandin G/H synthase family.Contains 1 EGF-like domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	PTGS2 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) [Homo sapiens]
Official Symbol	PTGS2
Synonyms	PTGS2; prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin G/H synthase 2; COX2;
Gene ID	5743
mRNA Refseq	NM_000963
Protein Refseq	NP_000954
MIM	600262
Uniprot ID	P35354
Chromosome Location	1q25.2-q25.3

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Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; COX reactions, organism-specific biosystem;
Function	enzyme binding; heme binding; lipid binding; metal ion binding; oxidoreductase activity;

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