

## Recombinant Human PTGS2

Cat. No. PTGS2-523H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PTGS2 was expressed in <i>Sf21 cells</i> .
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	Prostaglandin-endoperoxide synthase 2, also known as cyclooxygenase-2 or simply COX-2, is an enzyme which in humans is encoded by the PTGS2 gene.
<b>Purity</b>	70%.
<b>Unit Definition</b>	1 unit equals 1 nanogram of purified protein.
<b>Buffer</b>	80 mM Tris -HCl, pH 8.0, containing 0.1% Tween 20 and 300 M DDC.
<b>Storage</b>	-80°C, AVOID repeated freeze & thawing.

### GENE INFORMATION

<b>Gene Name</b>	PTGS2 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) [ <i>Homo sapiens</i> ]
<b>Synonyms</b>	PTGS2; prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); PGH synthase 2; PHS II; cyclooxygenase 2b; cyclooxygenase-2; prostaglandin G/H synthase 2; prostaglandin G/H synthase and cyclooxygenase;

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	prostaglandin H2 synthase 2; COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS; PTGS2; EC 1.14.99.1
<b>Gene ID</b>	5743
<b>mRNA Refseq</b>	NM_000963
<b>Protein Refseq</b>	NP_000954
<b>MIM</b>	600262
<b>UniProt ID</b>	P35354
<b>Chromosome Location</b>	1q25.2-q25
<b>Pathway</b>	Arachidonic acid metabolism; Pathways in cancer; Small cell lung cancer; VEGF signaling pathway; Biological oxidations
<b>Function</b>	heme binding; lipid binding; oxidoreductase activity; metal ion binding; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; peroxidase activity; peroxidase activity; prostaglandin-endoperoxide synthase activity; protein binding

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