

# Recombinant Human PTGS2

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

## SPECIFICATION

|                         |                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PTGS2 was expressed in Sf21 cells.                                                                                              |
| <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) [ Homo sapiens ]                                                                                                                            |
| <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 |