

# Recombinant Human PTGS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PTGS1-865H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PTGS1 MS Standard C13 and N15-labeled recombinant protein (NP_000953) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This is one of two genes encoding similar enzymes that catalyze the conversion of arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 68.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSRSLLLRFLFLLLLPLPVLLADPGAPTPVNPCCYYPCQHQGICVRFGLDTRYQCD<br>CTRTRGYSGPNCTIPGLWTWLRNSLRSPSFTHFLLTHGRWFWEFVNATFIREMLMR<br>LVLTVRSNLIPSPPTYNSAHDYISWESFSNVSYTRILPSVPKDCPTPMGTGKGGKQLP<br>DAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPFGFTKALGHGV<br>DLGHIYGDNLERQYQLRLFKDGLKYQVLDGEMYPPSVEEAPVLMHYPRGIPPQSQ<br>MAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETI                                                                                                                                                                          |

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KIVIEEYVQQLSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSFKVG  
 SQEYSYEQFLFNTSMLVDYGVEALVDAFSRQIAGRIGGGRNMDHHILHVAVDVIRE  
 REMRLQPFNEYRKRFGMKPYTSFQELVGEKEMAAELEELYGDIDALEFYPGLLLEK  
 CHPNSIFGESMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEVGFNIVKTATLKKLVCL  
 NTKTCPYVSFRVPDASQDDGPAVERPSTELTRTRPLEQKLISEEDLAANDILDYKDD  
 DDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** PTGS1 prostaglandin-endoperoxide synthase 1 [ Homo sapiens (human) ]

**Official Symbol** PTGS1

**Synonyms** PTGS1; prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin G/H synthase 1; COX1; PGHS 1; PTGHS; COX-1; PHS 1; PGH synthase 1; cyclooxygenase-1; prostaglandin H2 synthase 1; prostaglandin G/H synthase and cyclooxygenase; COX3; PHS1; PCOX1; PGHS1; PGG/HS; PGHS-1;

**Gene ID** 5742

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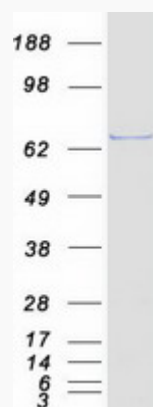
**mRNA Refseq** [NM\\_000962](#)

**Protein Refseq** [NP\\_000953](#)

**MIM** [176805](#)

**UniProt ID** [P23219](#)

**SDS-PAGE**



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