

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

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

SPECIFICATION

Product Overview	PTGS1 MS Standard C13 and N15-labeled recombinant protein (NP_000953) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	68.7 kDa
AA Sequence	MSRSLLLRFLFLLLLPLPVLLADPGAPTPVNPCCYYPCQHQGICVRFGLDRYQCD CTRTRGYSGPNCTIPGLWTWLRNSLRSPSFTHFLLTHGRWFWFVNATFIREMLMR LVLTVRSNLIPSPPTYNSAHDYISWESFSNVSYYTRILPSVPKDCPTPMGTGKGGKQLP DAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPGFTKALGHGV DLGHIYGDNLERQYQLRFLFKDGLKYQVLDGEMYPPSVEEAPVLMHYPRGIPPQSQ MAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

KIVIEEYVQQLSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSFKVG
 SQEYSYEQFLFNTSMLVDYGVVEALVDAFSRQIAGRIGGGRNMDHHILHVAVDVIRE
 REMRLQPFNEYRKRFRGMKPYTSFQELVGEKEMAAELEELYGDIDALEFYPLGKLLLEK
 CHPNSIFGSMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEGVGFNIVKTATLKKLVCL
 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](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

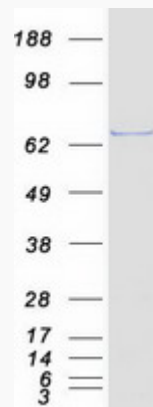
mRNA Refseq [NM_000962](#)

Protein Refseq [NP_000953](#)

MIM [176805](#)

UniProt ID [P23219](#)

SDS-PAGE



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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