

# Recombinant Full Length Human PTGS1 Protein, C-Flag-tagged

**Cat. No.** PTGS1-593HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human PTGS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<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>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	65.9 kDa
<b>AA Sequence</b>	MSRSLLLRFLLLFLLLLPPLPVLLADPGAPTPVNPCCYYPQCQHGGICVRFGLDRYQCD CTRTRGYSGPNCTI PGLWTWLRNSLRSPSFTHFLLTHGRWFWFVNATFIREMLM RLVLTVRSNLIPSPPTYNSAHDYISWES FSNVSYTRILPSVPKDCPTPMGTKGKKQ LPDAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFK TSGKMGPGFTKALGH GVDLGHYGDNLERQYQLRLFKDGLKYQVLDGEMYPPSVEEAPVLMHYPRGIPP Q

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

SQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIG  
 ETIKIVIEEYVQQ LSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSF  
 KVGSQEYSYEQFLFNTSMLVDYGVEA LVDAFSRQIAGRIGGGRNMDHHILHVAVDV  
 IRESREMLQPFNEYRKRFGMKPYTSFQELVGEKEMAAEL EELYGDIDALEFYPLGL  
 LLEKCHPNSIFGESMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEVGFNIVKT  
 ATLKKLVCLNTKTCYVVSFRVPDASQDDGPAVERPSTELTRTRPLEQKLISEEDLAA  
 NDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Arachidonic acid metabolism, Metabolic pathways
<b>Full Length</b>	Full L.

## GENE INFORMATION

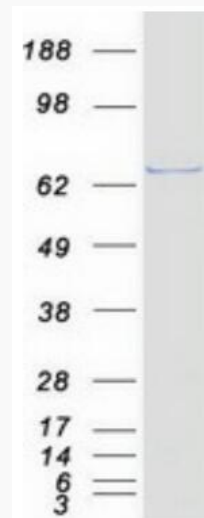
<b>Gene Name</b>	PTGS1 prostaglandin-endoperoxide synthase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PTGS1

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Synonyms</b>	COX1; COX3; PHS1; PCOX1; PES-1; PGHS1; PTGHS; PGG/HS; PGHS-1
<b>Gene ID</b>	5742
<b>mRNA Refseq</b>	NM_000962.4
<b>Protein Refseq</b>	NP_000953.2
<b>MIM</b>	176805
<b>UniProt ID</b>	P23219



Coomassie blue staining of purified PTGS1 protein.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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